

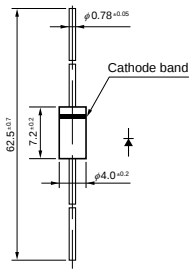
## 4-2 Fast Recovery Diodes

### ●Thru-Hole

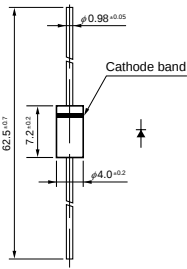
| V <sub>RM</sub><br>(V) | I <sub>F</sub> (A)<br>(A)<br><small>Values in parentheses<br/>are for the products<br/>with heatsinks</small> | Package<br>Axial<br><small>(Body Diameter/Lead Diameter)</small> | Part<br>Number | I <sub>FSM</sub><br>(A)                      | T <sub>j</sub><br>(°C) | T <sub>stg</sub><br>(°C) | V <sub>F</sub><br>(V)<br>max | I <sub>F</sub><br>(A) | I <sub>R</sub><br>(μA)<br><small>V<sub>R</sub>=V<sub>RM</sub><br/>max</small> | I <sub>R</sub> (H)<br>(μA)<br><small>V<sub>R</sub>=V<sub>RM</sub><br/>max</small> | T <sub>j</sub><br>(°C) | trr <sup>(1)</sup><br>(μs) | I <sub>F</sub> /I <sub>RP</sub><br>(mA) | trr <sup>(2)</sup><br>(μs) | I <sub>F</sub> /I <sub>RP</sub><br>(mA) | R <sub>th(j-l)</sub><br>R <sub>th(j-c)</sub><br>(°C/W) | Mass<br>(g) |
|------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------|----------------------------------------------|------------------------|--------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|----------------------------|-----------------------------------------|----------------------------|-----------------------------------------|--------------------------------------------------------|-------------|
|                        |                                                                                                               |                                                                  |                | 50Hz<br><small>Single Half Sine Wave</small> |                        |                          |                              |                       |                                                                               |                                                                                   |                        |                            |                                         |                            |                                         |                                                        |             |
| 200                    | 0.5                                                                                                           | Axial(φ2.7/φ0.6)                                                 | EU01Z          | 15                                           | -40 to +150            |                          | 1.0                          | 0.5                   | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 20                                                     | 0.2         |
|                        | 0.5                                                                                                           | Axial(φ2.7/φ0.78)                                                | EU 1Z          | 15                                           | -40 to +150            |                          | 1.0                          | 0.5                   | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 17                                                     | 0.3         |
|                        | 0.5                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AU01Z          | 15                                           | -40 to +150            |                          | 1.7                          | 0.5                   | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 22                                                     | 0.13        |
|                        | 0.6                                                                                                           | Axial(φ4.0/φ0.78)                                                | RH 1Z          | 35                                           | -40 to +150            |                          | 1.3                          | 0.6                   | 5.0                                                                           | 70                                                                                | 150(Ta)                | 4.0                        | 10/10                                   | 1.3                        | 10/20                                   | 15                                                     | 0.4         |
|                        | 0.7                                                                                                           | Axial(φ2.7/φ0.78)                                                | ES 1Z          | 30                                           | -40 to +150            |                          | 2.5                          | 0.8                   | 10                                                                            | 200                                                                               | 100(Ta)                | 1.5                        | 10/10                                   | 0.6                        | 10/20                                   | 17                                                     | 0.3         |
|                        | 0.8                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AU02Z          | 25                                           | -40 to +150            |                          | 1.3                          | 0.8                   | 10                                                                            | 250                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 22                                                     | 0.13        |
|                        | 1.0                                                                                                           | Axial(φ2.7/φ0.6)                                                 | EU02Z          | 15                                           | -40 to +150            |                          | 1.4                          | 1.0                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 20                                                     | 0.2         |
|                        | 1.0                                                                                                           | Axial(φ2.7/φ0.78)                                                | EU 2Z          | 15                                           | -40 to +150            |                          | 1.4                          | 1.0                   | 10                                                                            | 3000                                                                              | 150                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 17                                                     | 0.3         |
|                        | 1.0                                                                                                           | Axial(φ4.0/φ0.78)                                                | RU 2Z          | 20                                           | -40 to +150            |                          | 1.5                          | 1.0                   | 10                                                                            | 300                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 3.5                                                                                                           | Axial(φ6.5/φ1.4)                                                 | RU 4Z          | 70                                           | -40 to +150            |                          | 1.3                          | 3.5                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 8.0                                                    | 1.2         |
|                        | 5.0                                                                                                           | TO-220F(Center-tap)                                              | FMU-12S, R     | 30                                           | -40 to +150            |                          | 1.5                          | 2.5                   | 50                                                                            | 500                                                                               | 100(Ta)                | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 4.0                                                    | 2.1         |
| 10                     | TO-220F(Center-tap)                                                                                           | FMU-22S, R                                                       | 40             | -40 to +150                                  |                        | 1.5                      | 5.0                          | 50                    | 3000                                                                          | 150                                                                               | 0.4                    | 100/100                    | 0.18                                    | 100/200                    | 4.0                                     | 2.1                                                    |             |
| 400                    | 0.25                                                                                                          | Axial(φ2.7/φ0.6)                                                 | EU01           | 15                                           | -40 to +150            |                          | 2.5                          | 0.25                  | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 20                                                     | 0.2         |
|                        | 0.25                                                                                                          | Axial(φ2.7/φ0.78)                                                | EU 1           | 15                                           | -40 to +150            |                          | 2.5                          | 0.25                  | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 17                                                     | 0.3         |
|                        | 0.25                                                                                                          | Axial(φ4.0/φ0.78)                                                | RU 1           | 15                                           | -40 to +150            |                          | 2.5                          | 0.25                  | 10                                                                            | 200                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 0.5                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AU01           | 15                                           | -40 to +150            |                          | 1.7                          | 0.5                   | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 22                                                     | 0.13        |
|                        | 0.6                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AS01           | 20                                           | -40 to +150            |                          | 1.5                          | 0.6                   | 10                                                                            | 50                                                                                | 100                    | 1.5                        | 10/10                                   | 0.6                        | 10/20                                   | 22                                                     | 0.13        |
|                        | 0.6                                                                                                           | Axial(φ2.7/φ0.78)                                                | EH 1           | 30                                           | -40 to +150            |                          | 1.35                         | 0.6                   | 10                                                                            | 200                                                                               | 100(Ta)                | 4.0                        | 10/10                                   | 1.3                        | 10/20                                   | 17                                                     | 0.3         |
|                        | 0.7                                                                                                           | Axial(φ2.7/φ0.78)                                                | ES 1           | 30                                           | -40 to +150            |                          | 2.5                          | 0.8                   | 10                                                                            | 200                                                                               | 100(Ta)                | 1.5                        | 10/10                                   | 0.6                        | 10/20                                   | 20                                                     | 0.2         |
|                        | 0.8                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AU02           | 25                                           | -40 to +150            |                          | 1.3                          | 0.8                   | 10                                                                            | 250                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 22                                                     | 0.13        |
|                        | 1.0                                                                                                           | Axial(φ2.7/φ0.6)                                                 | EU02           | 15                                           | -40 to +150            |                          | 1.4                          | 1.0                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 20                                                     | 0.2         |
|                        | 1.0                                                                                                           | Axial(φ2.7/φ0.78)                                                | EU 2           | 15                                           | -40 to +150            |                          | 1.4                          | 1.0                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 17                                                     | 0.3         |
|                        | 1.1                                                                                                           | Axial(φ4.0/φ0.78)                                                | RU 2M          | 20                                           | -40 to +150            |                          | 1.2                          | 1.1                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 1.5                                                                                                           | Axial(φ4.0/φ0.98)                                                | RU 3           | 20                                           | -40 to +150            |                          | 1.5                          | 1.5                   | 10                                                                            | 400                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 12                                                     | 0.6         |
|                        | 1.5                                                                                                           | Axial(φ4.0/φ0.98)                                                | RU 3M          | 50                                           | -40 to +150            |                          | 1.1                          | 1.5                   | 10                                                                            | 350                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 12                                                     | 0.6         |
|                        | 1.5(3.0)                                                                                                      | Axial(φ6.5/φ1.4)                                                 | RU 4           | 50                                           | -40 to +150            |                          | 1.5                          | 3.0                   | 10                                                                            | 300                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 8.0                                                    | 1.2         |
|                        | 2.0(3.5)                                                                                                      | Axial(φ6.5/φ1.4)                                                 | RU 4M          | 70                                           | -40 to +150            |                          | 1.3                          | 3.5                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 8.0                                                    | 1.2         |
|                        | 5.0                                                                                                           | TO-220F(Center-tap)                                              | FMU-14S, R     | 30                                           | -40 to +150            |                          | 1.5                          | 2.5                   | 50                                                                            | 500                                                                               | 100(Ta)                | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 4.0                                                    | 2.1         |
|                        | 10                                                                                                            | TO-220F(Center-tap)                                              | FMU-24S, R     | 40                                           | -40 to +150            |                          | 1.5                          | 5.0                   | 50                                                                            | 3000                                                                              | 150                    | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 4.0                                                    | 2.1         |
| 600                    | 0.25                                                                                                          | Axial(φ4.0/φ0.78)                                                | RU 1A          | 15                                           | -40 to +150            |                          | 2.5                          | 0.25                  | 10                                                                            | 150                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 0.5                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AU01A          | 15                                           | -40 to +150            |                          | 1.7                          | 0.5                   | 10                                                                            | 150                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 22                                                     | 0.13        |
|                        | 0.6                                                                                                           | Axial(φ4.0/φ0.78)                                                | RF 1A          | 15                                           | -40 to +150            |                          | 2.0                          | 0.6                   | 10                                                                            | 200                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 0.6                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AS01A          | 20                                           | -40 to +150            |                          | 1.5                          | 0.6                   | 10                                                                            | 50                                                                                | 100                    | 1.5                        | 10/10                                   | 0.6                        | 10/20                                   | 22                                                     | 0.13        |
|                        | 0.6                                                                                                           | Axial(φ4.0/φ0.78)                                                | RH 1A          | 35                                           | -40 to +150            |                          | 1.3                          | 0.6                   | 5.0                                                                           | 70                                                                                | 150(Ta)                | 4.0                        | 10/10                                   | 1.3                        | 10/20                                   | 15                                                     | 0.4         |
|                        | 0.7                                                                                                           | Axial(φ2.7/φ0.6)                                                 | ES01A          | 20                                           | -40 to +150            |                          | 3.0                          | 0.8                   | 10                                                                            | 200                                                                               | 100(Ta)                | 1.5                        | 10/10                                   | 0.6                        | 10/20                                   | 20                                                     | 0.2         |
|                        | 0.7                                                                                                           | Axial(φ4.0/φ0.78)                                                | RS 1A          | 30                                           | -40 to +150            |                          | 2.5                          | 0.8                   | 10                                                                            | 2000                                                                              | 150                    | 1.5                        | 10/10                                   | 0.6                        | 10/20                                   | 15                                                     | 0.4         |
|                        | 0.8                                                                                                           | Axial(φ2.4/φ0.6)                                                 | AU02A          | 25                                           | -40 to +150            |                          | 1.3                          | 0.8                   | 10                                                                            | 250                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 22                                                     | 0.13        |
|                        | 1.0                                                                                                           | Axial(φ2.7/φ0.6)                                                 | EU02A          | 15                                           | -40 to +150            |                          | 1.4                          | 1.0                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 20                                                     | 0.2         |
|                        | 1.0                                                                                                           | Axial(φ2.7/φ0.78)                                                | EU 2A          | 15                                           | -40 to +150            |                          | 1.4                          | 1.0                   | 10                                                                            | 300                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 17                                                     | 0.3         |
|                        | 1.0                                                                                                           | Axial(φ4.0/φ0.78)                                                | RU 2           | 20                                           | -40 to +150            |                          | 1.5                          | 1.0                   | 10                                                                            | 300                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 1.1                                                                                                           | Axial(φ4.0/φ0.78)                                                | RU 2AM         | 20                                           | -40 to +150            |                          | 1.2                          | 1.1                   | 10                                                                            | 300                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 1.5                                                                                                           | Axial(φ4.0/φ0.98)                                                | RU 3A          | 20                                           | -40 to +150            |                          | 1.5                          | 1.5                   | 10                                                                            | 400                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 12                                                     | 0.6         |
|                        | 1.5                                                                                                           | Axial(φ4.0/φ0.78)                                                | RU 20A         | 50                                           | -40 to +150            |                          | 1.1                          | 1.5                   | 10                                                                            | 350                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 15                                                     | 0.4         |
|                        | 1.5                                                                                                           | Axial(φ4.0/φ0.98)                                                | RU 3AM         | 50                                           | -40 to +150            |                          | 1.1                          | 1.5                   | 10                                                                            | 350                                                                               | 100                    | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 12                                                     | 0.6         |
|                        | 1.5(3.0)                                                                                                      | Axial(φ6.5/φ1.4)                                                 | RU 4A          | 50                                           | -40 to +150            |                          | 1.5                          | 3.0                   | 10                                                                            | 300                                                                               | 100(Ta)                | 0.4                        | 10/10                                   | 0.18                       | 10/20                                   | 8                                                      | 1.2         |
|                        | 3.0                                                                                                           | Axial(φ4.0/φ0.98)                                                | RY 2A          | 50                                           | -40 to +150            |                          | 1.15                         | 3.0                   | 10                                                                            | 1000                                                                              | 150                    | 0.2                        | 100/100                                 | 0.1                        | 100/200                                 | 12                                                     | 0.6         |
|                        | 3.0                                                                                                           | TO-220F2Pin                                                      | FMY-1036S      | 50                                           | -40 to +150            |                          | 1.15                         | 3.0                   | 10                                                                            | 1000                                                                              | 150                    | 0.2                        | 100/100                                 | 0.1                        | 100/200                                 | 4.0                                                    | 2.1         |
|                        | 5.0                                                                                                           | TO-220F2Pin                                                      | FMU-G16S       | 30                                           | -40 to +150            |                          | 1.25                         | 5.0                   | 50                                                                            | 500                                                                               | 100(Ta)                | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 4.0                                                    | 2.1         |
|                        | 5.0                                                                                                           | TO-220F(Center-tap)                                              | FMU-16S, R     | 30                                           | -40 to +150            |                          | 1.5                          | 2.5                   | 50                                                                            | 500                                                                               | 100(Ta)                | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 4.0                                                    | 2.1         |
|                        | 10                                                                                                            | TO-220F(Center-tap)                                              | FMU-26S, R     | 40                                           | -40 to +150            |                          | 1.5                          | 5.0                   | 50                                                                            | 3000                                                                              | 150                    | 0.4                        | 100/100                                 | 0.18                       | 100/200                                 | 4.0                                                    | 2.1         |
| 10                     | TO-220F2Pin                                                                                                   | FMU-G26S                                                         | 40             | -40 to +150                                  |                        | 1.35                     | 10                           | 50                    | 500                                                                           | 150                                                                               | 0.4                    | 100/100                    | 0.18                                    | 100/200                    | 4.0                                     | 2.1                                                    |             |
| 10                     | TO-220F2Pin                                                                                                   | FMY-1106S                                                        | 180            | -40 to +150                                  |                        | 1.15                     | 10                           | 30                    | 3000                                                                          | 150                                                                               | 0.2                    | 100/100                    | 0.1                                     | 100/200                    | 4.0                                     | 2.1                                                    |             |
| 20                     | TO-220F(Center-tap)                                                                                           | FMY-2206S*                                                       | 180            | -40 to +150                                  |                        | 1.15                     | 10                           | 30                    | 3000                                                                          | 150                                                                               | 0.2                    | 100/100                    | 0.1                                     | 100/200                    | 4.0                                     | 2.1                                                    |             |

\*Under development

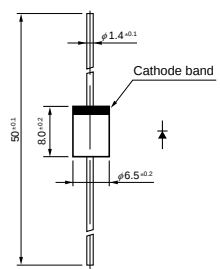
• No. 13 Axial ( $\phi 4.0/\phi 0.78$ )



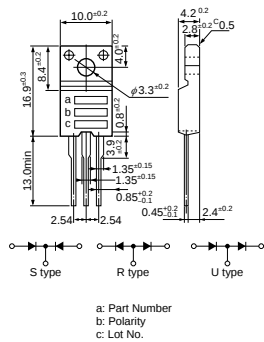
• No. 14 Axial ( $\phi 4.0/\phi 0.98$ )



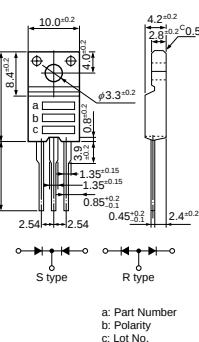
• No. 15 Axial ( $\phi 6.5/\phi 1.4$ )



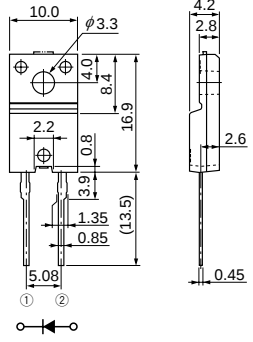
• No. 16 TO-220F (Two Elements)



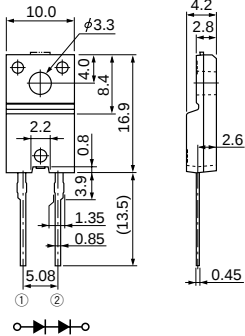
• No. 17 TO-220F (Center-tap)



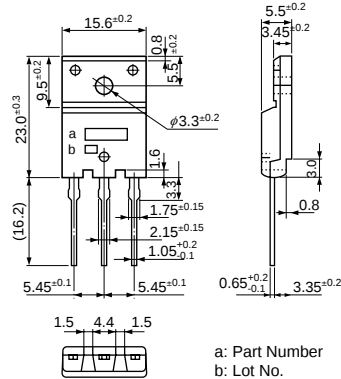
• No. 18 TO-220F2Pin



• No. 19 TO-220F2Pin (Two Elements)



• No. 20 TO-3PF



• No. 21 TO-3PF2Pin

