

Schottky barrier diode

RB205T-90

Applications

Switching power supply

Features

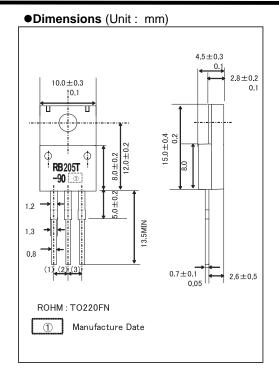
1) Cathode common type.

(TO-220)

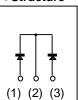
- 2) Low I_R
- 3) High reliability

Construction

Silicon epitaxial planer



Structure



●Absolute maximum ratings (Ta=25°C)

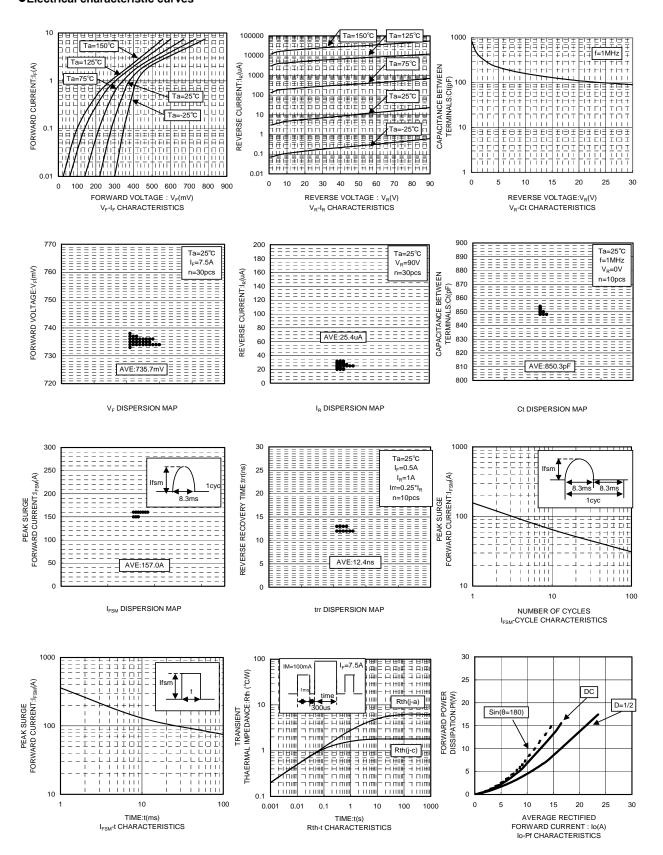
Parameter	Symbol	Limits	Unit					
Reverse voltage (repetitive peak)	V_{RM}	90	V					
Reverse voltage (DC)	V_R	90	V					
Average rectified forward current (*1)	lo	15	Α					
Forward current surge peak (60Hz / 1cyc) (*1)	I _{FSM}	100	Α					
Junction temperature	Tj	150	°C					
Storage temperature	Tstg	-40 to +150	°C					

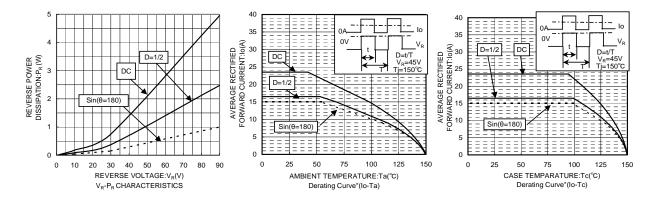
^(*1)Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=121°C

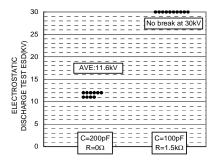
●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	0.78	V	I _F =7.5A
Reverse current	I _R	-	-	300	μΑ	V _R =90V
Thermal impedance	θјс	-	-	2	°C/W	junction to case

•Electrical characteristic curves







ESD DISPERSION MAP

Notes

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