

Schottky barrier diode

RB751S-40

●Applications

Low current rectification

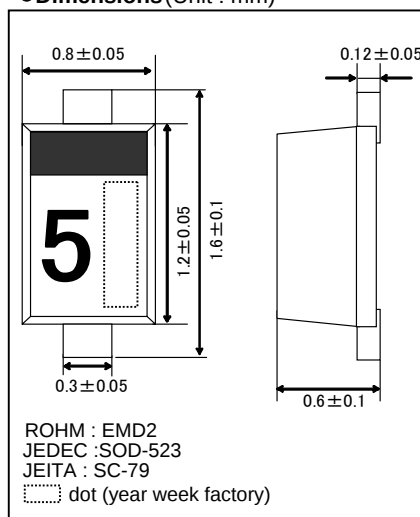
●Features

- 1) Ultra small mold type. (EMD2)
- 2) Low V_F
- 3) High reliability

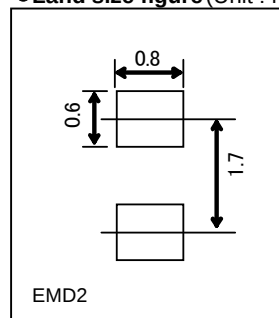
●Construction

Silicon epitaxial planar

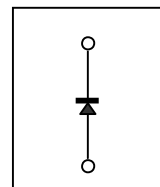
●Dimensions (Unit : mm)



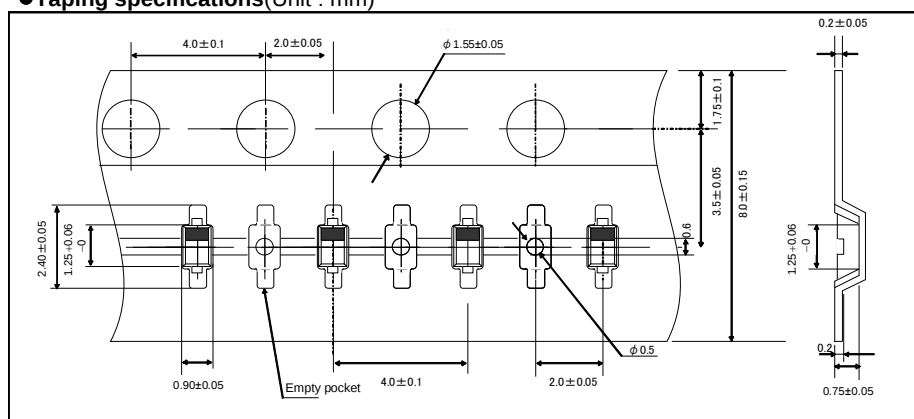
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



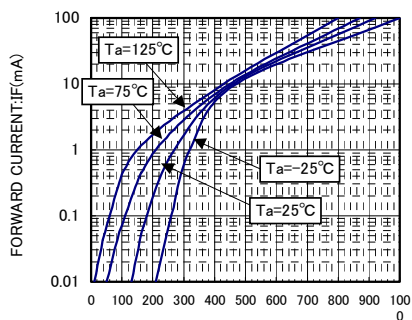
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_O	30	mA
Forward current surge peak (60Hz/1cyc)	I_{FSM}	200	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

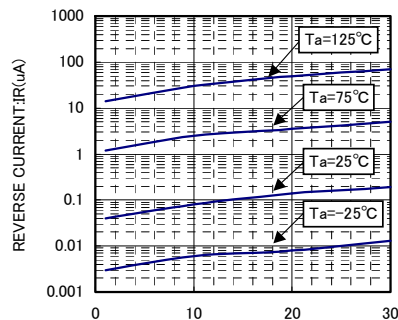
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	$I_F=1mA$
Reverse current	I_R	-	-	0.5	μA	$V_R=30V$
Capacitance between terminals	C_t	-	2	-	pF	$V_R=1V, f=1MHz$

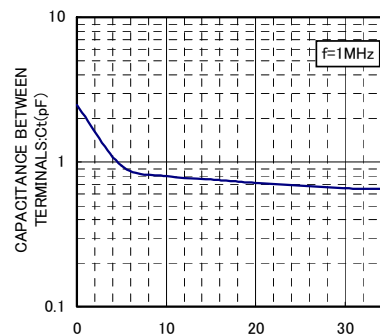
●Electrical characteristic curves



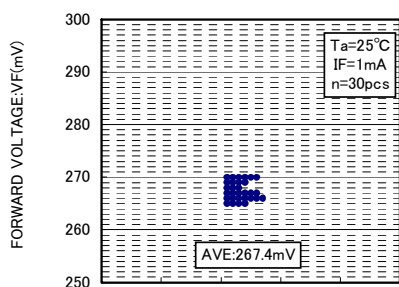
VF-IF CHARACTERISTICS
VF分布



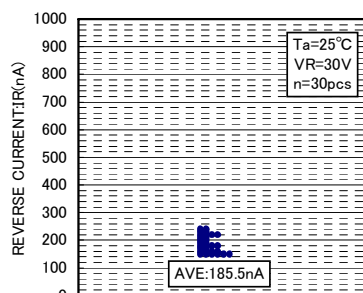
VR-IR CHARACTERISTICS



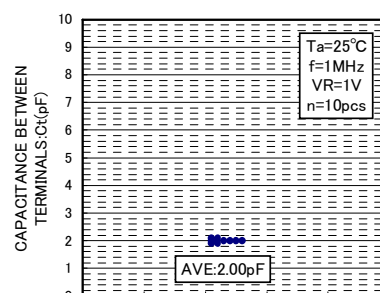
VR-Ct CHARACTERISTICS



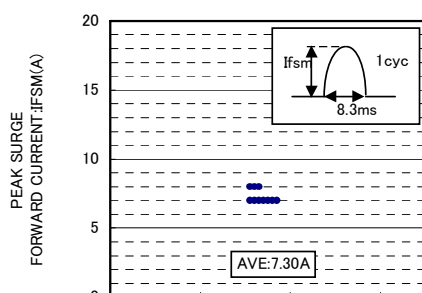
VF DISPERSION MAP



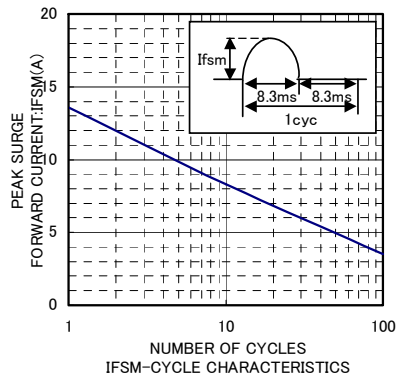
IR DISPERSION MAP



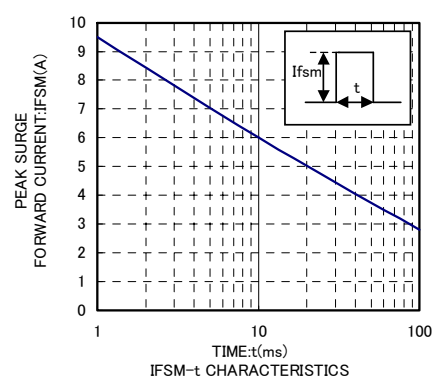
Ct DISPERSION MAP



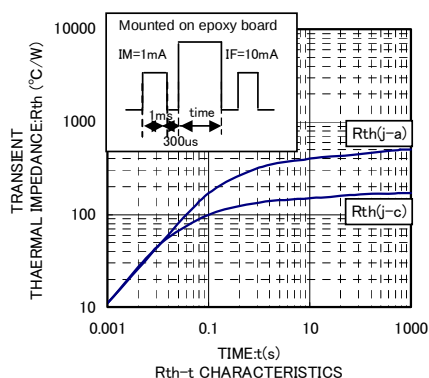
IFSM DISPERSION MAP



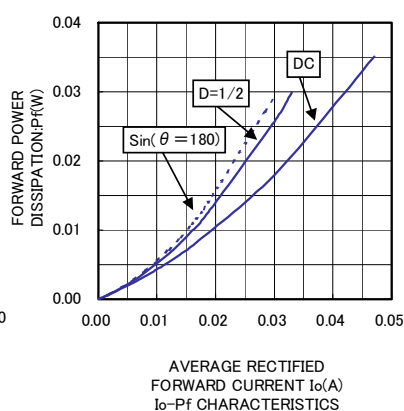
IFSM-CYCLE CHARACTERISTICS



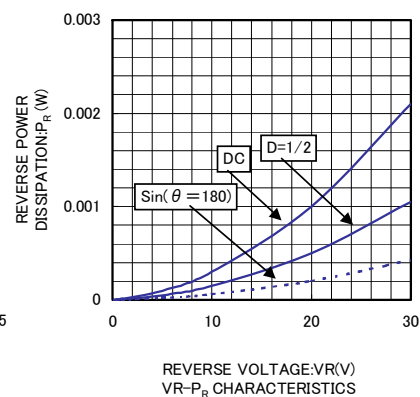
IFSM-t CHARACTERISTICS



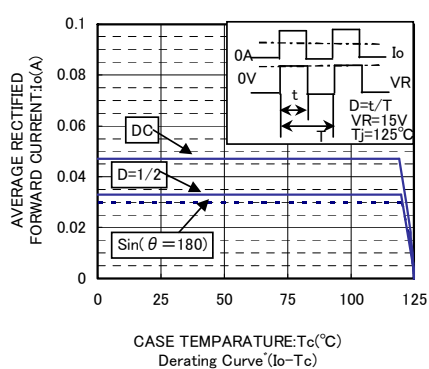
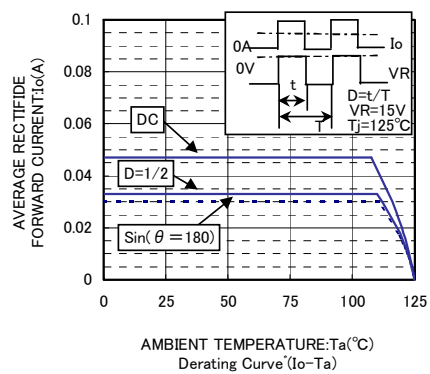
Rth-t CHARACTERISTICS



AVERAGE RECTIFIED
FORWARD CURRENT I_o (A)
 I_o -Pf CHARACTERISTICS



REVERSE VOLTAGE:VR(V)
VR-P_R CHARACTERISTICS



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