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ROHM SEMICONDUCTOR

Data Sheet

Schottky Barrier Diode

RB161SS-20

●Applications

Small current rectification

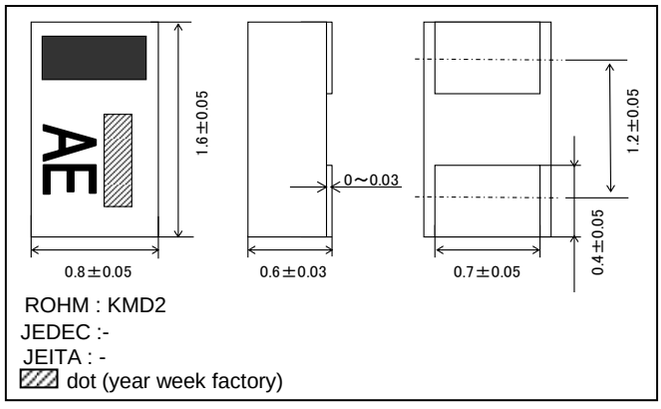
●Features

1)Small power mold type (KMD2)
2)High reliability
3)Low V_F

●Construction

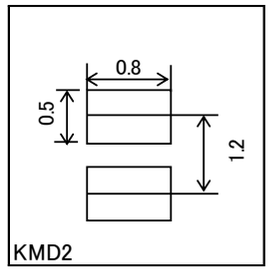
Silicon epitaxial planer

●Dimensions (Unit : mm)

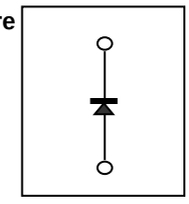


ROHM : KMD2
JEDEC :-
JEITA : -
dot (year week factory)

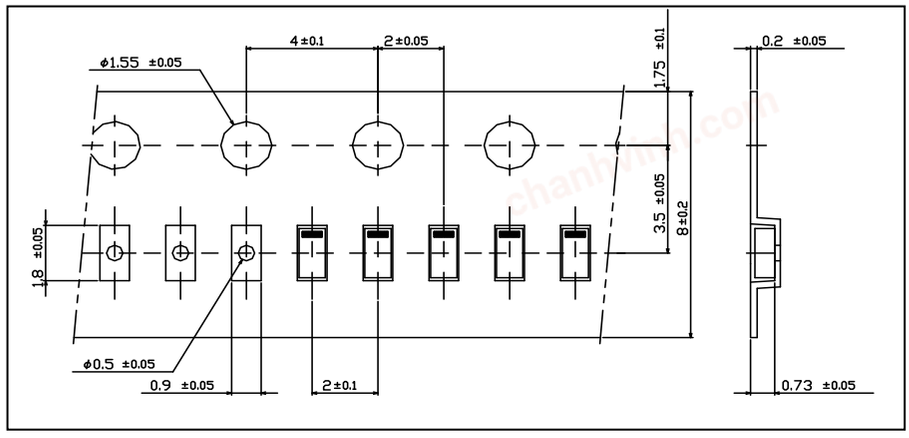
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

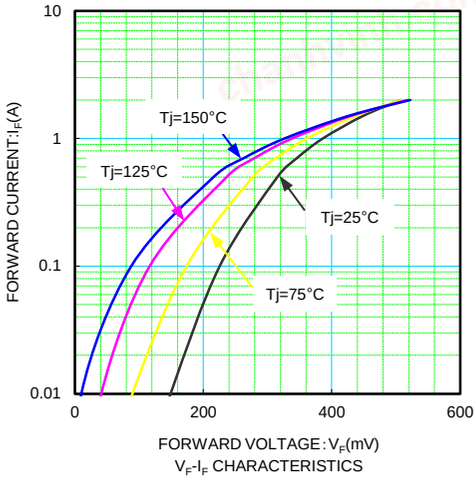
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	Io	1	A
Forward current surge peak (60Hz・1cyc.)	I_{FSM}	5	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40 to +125	°C

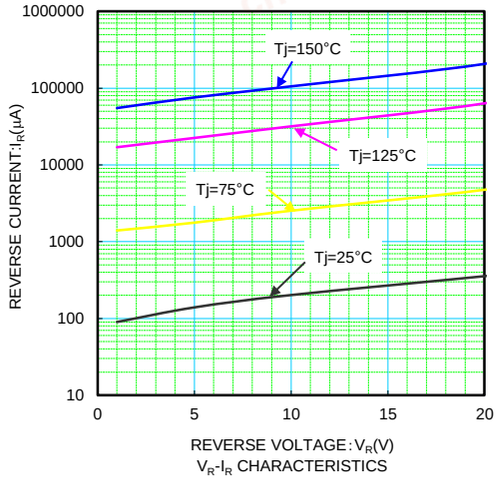
●Electrical characteristics (Ta=25°C)

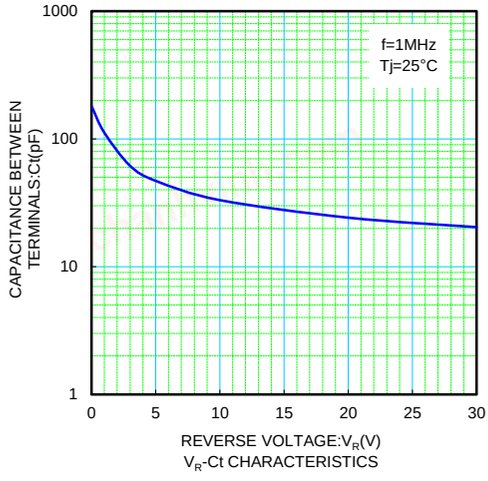
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward Voltage	V_{F1}	-	0.33	0.37	V	I_F=0.7A
	V_{F2}	-	0.38	0.42	V	I_F=1.0A
Reverse Current	I_R	-	0.20	1.00	mA	V_R=20V

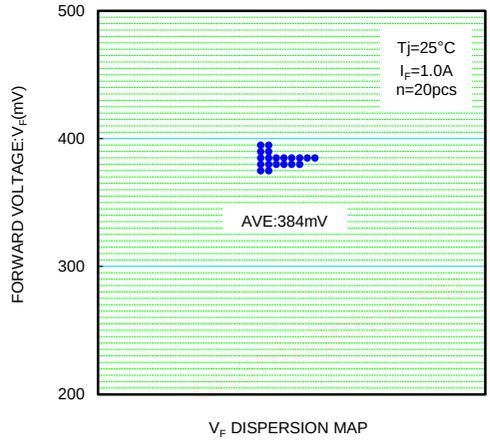
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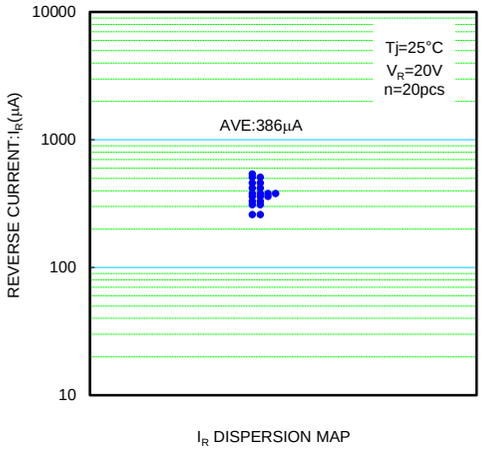
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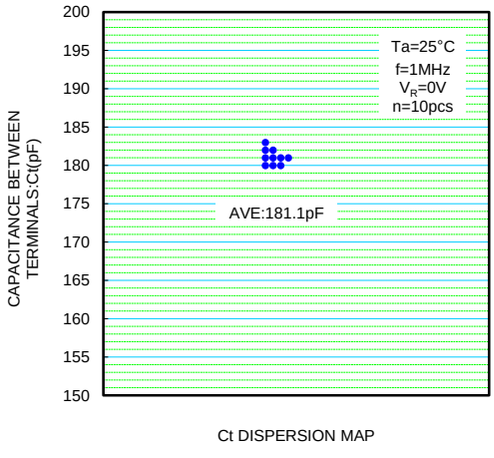






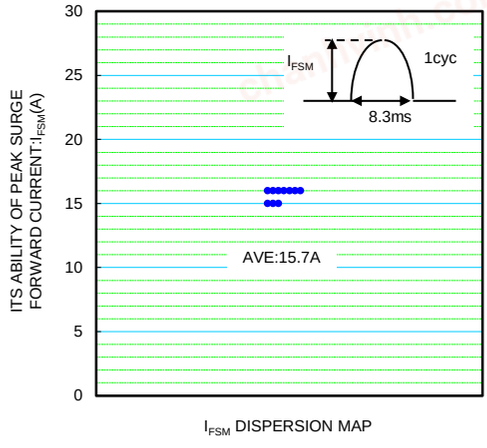




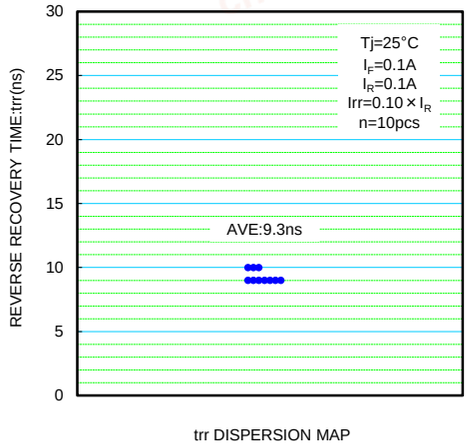


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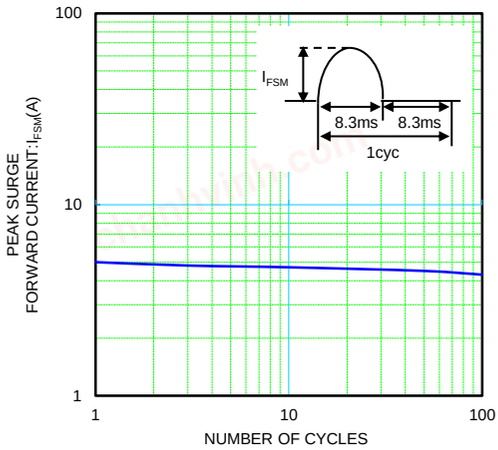
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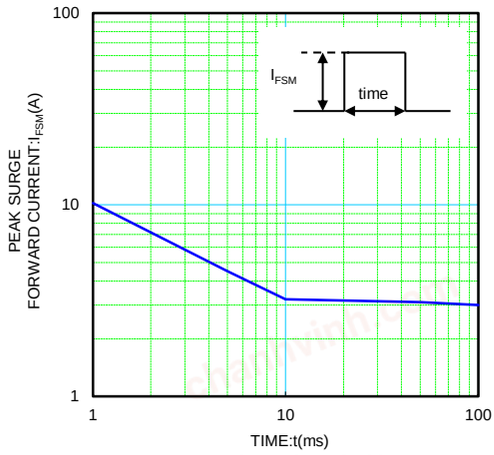
I_{FSM} DISPERSION MAP



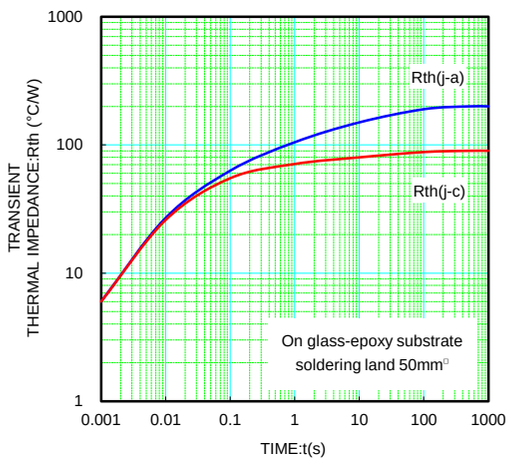
trr DISPERSION MAP



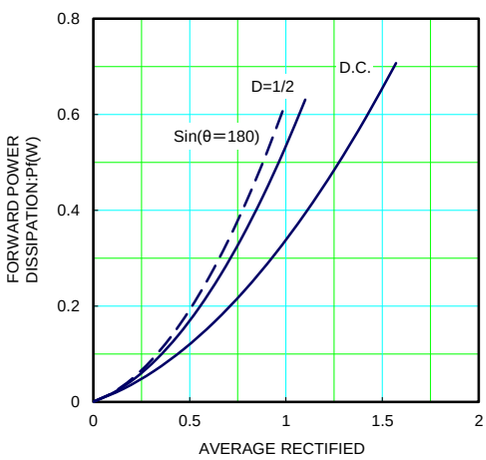
I_{FSM}-CYCLE CHARACTERISTICS



I_{FSM}-t CHARACTERISTICS



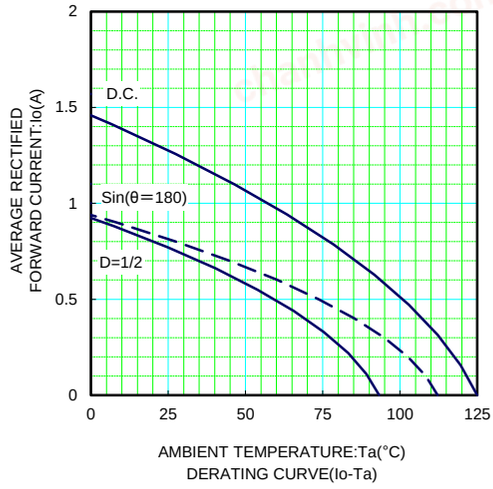
Rth-t CHARACTERISTICS



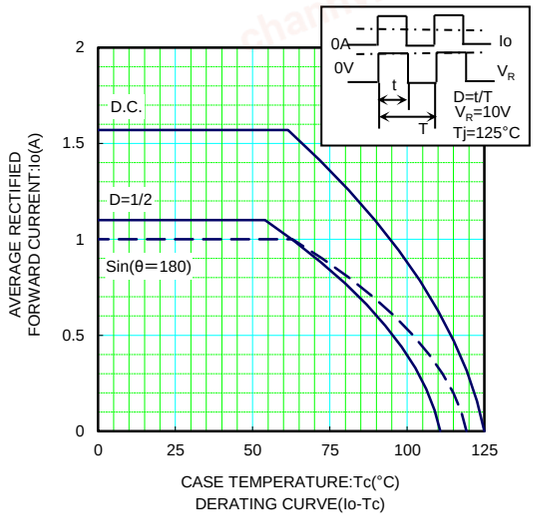
Io-Pf CHARACTERISTICS

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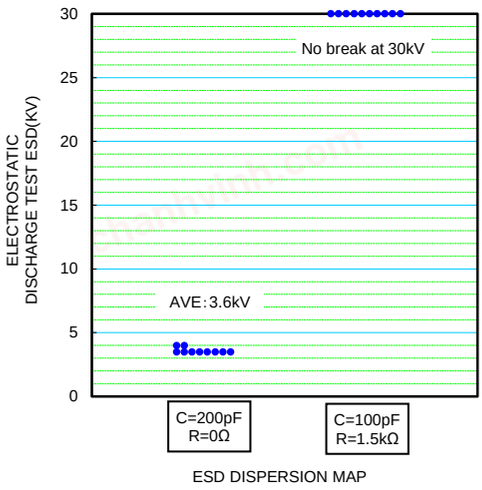
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DERATING CURVE(Io-Ta)



DERATING CURVE(Io-Tc)



ESD DISPERSION MAP

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