Schottky Barrier Diode

RB160SS-40

●Applications

Small current rectification

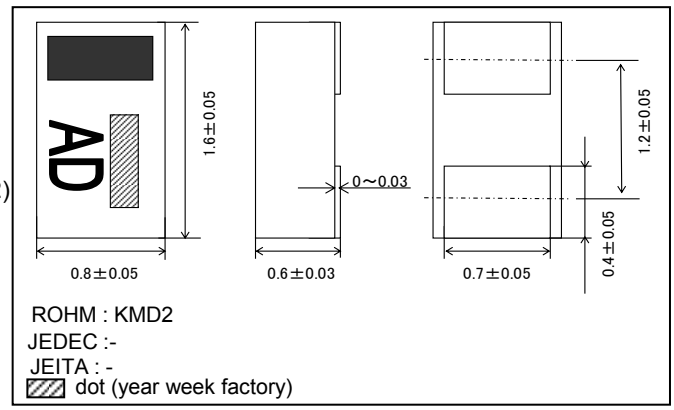
●Features

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

●Construction

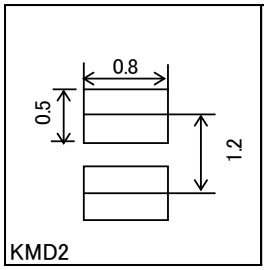
Silicon epitaxial planer

●Dimensions (Unit : mm)

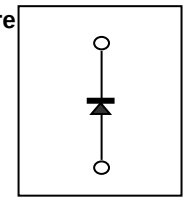


ROHM : KMD2
JEDEC :-
JEITA : -
dot (year week factory)

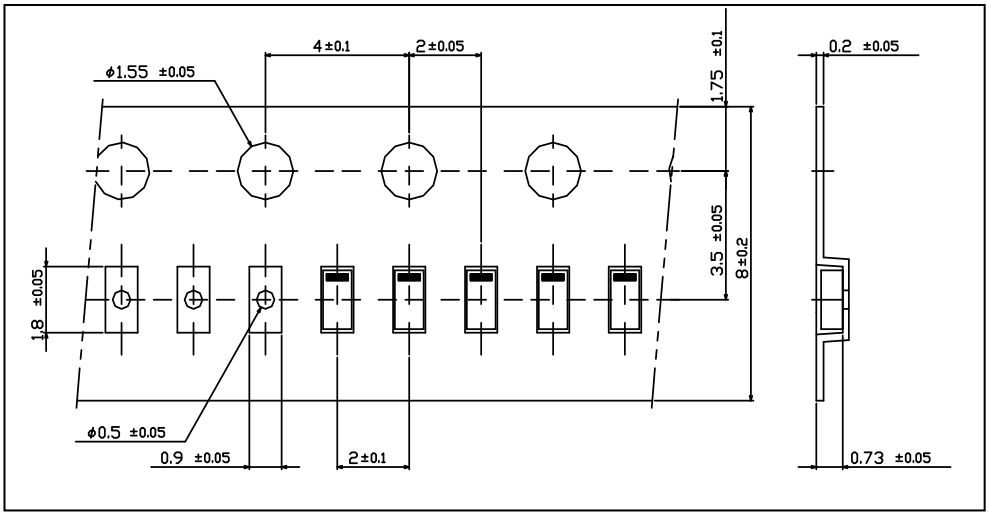
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

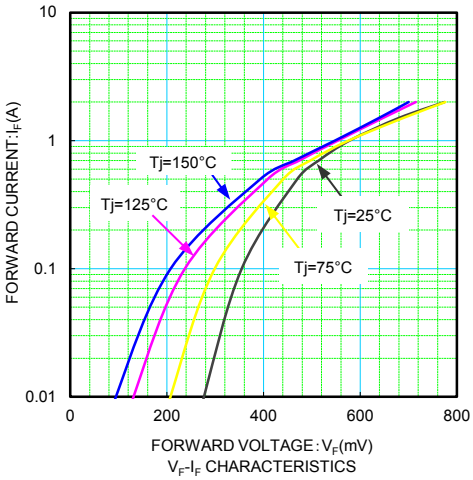
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	Io	1	A
Forward current surge peak(60Hz・1cyc.)	I_{FSM}	5	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−40 to +150	°C

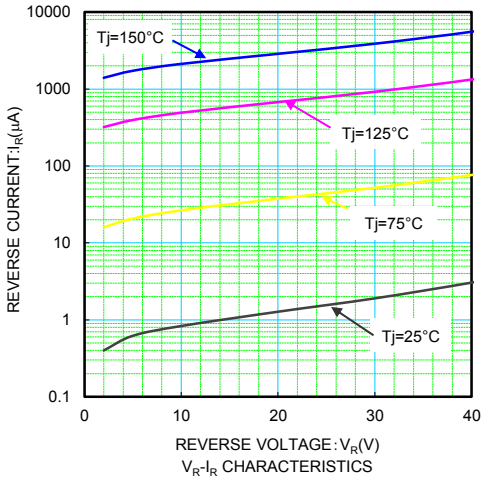
(*1) On the Glass epoxy substrate , 180°Half Sine wave

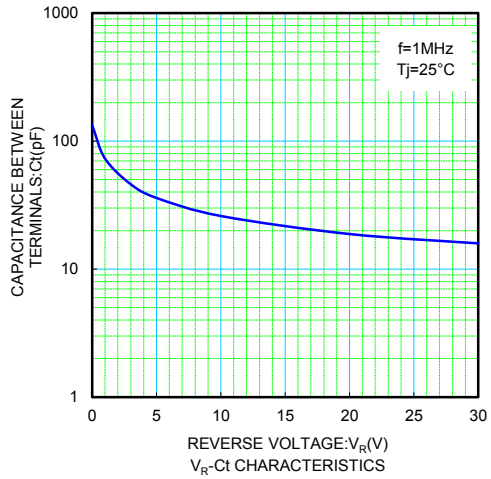
●Electrical characteristics (Ta=25°C)

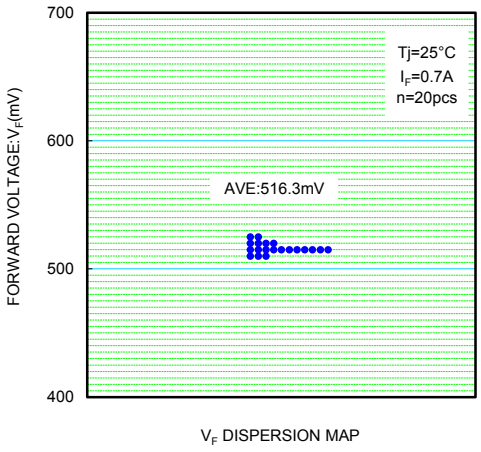
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.50	0.55	V	I_F=0.7A
Reverse current	I_R	-	3.00	50.00	μA	V_R=40V

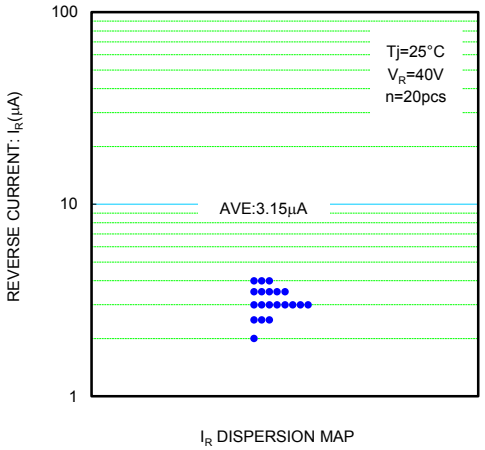
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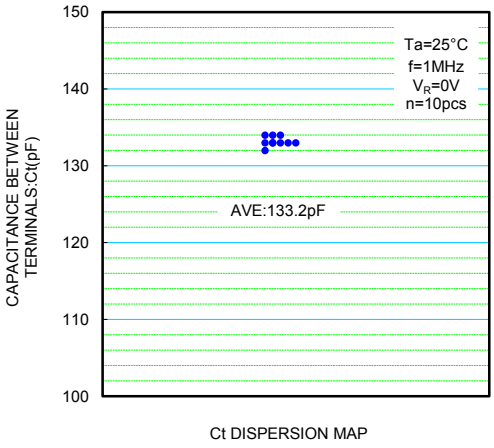




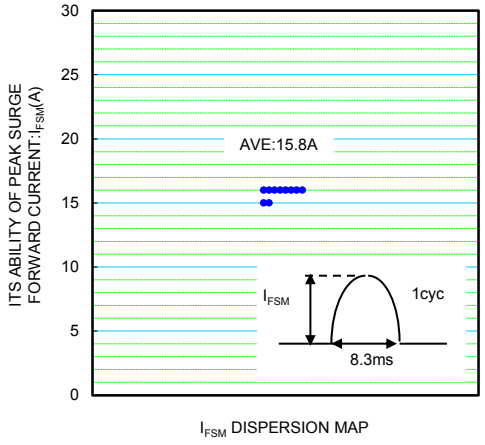




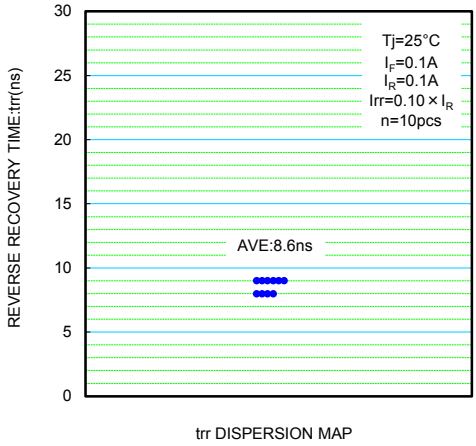




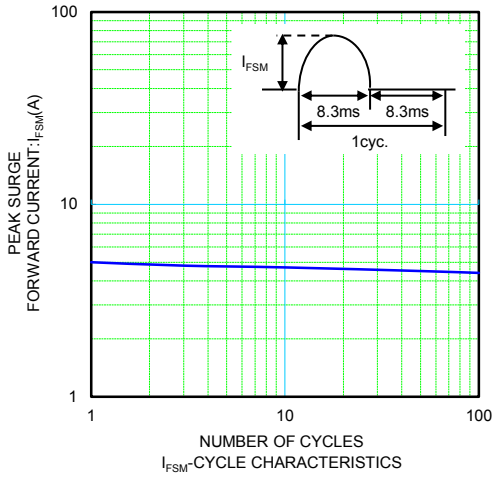
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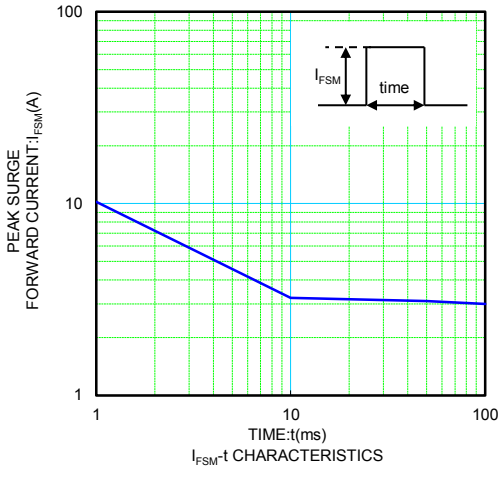
I_{FSM} DISPERSION MAP



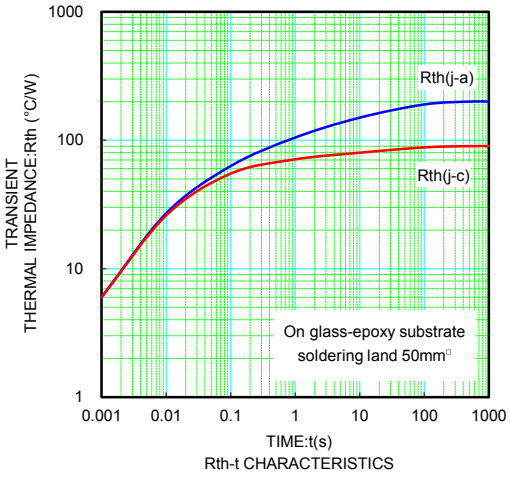
trr DISPERSION MAP



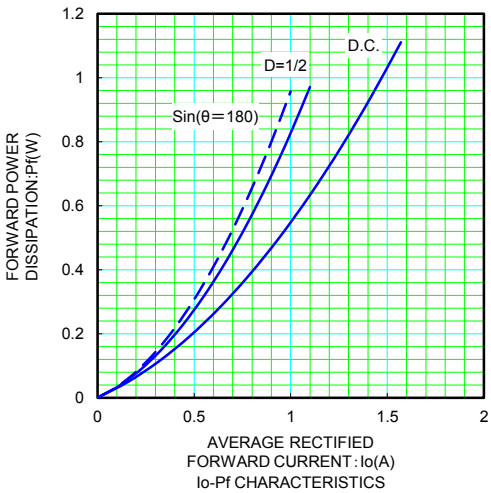
NUMBER OF CYCLES
I_{FSM}-CYCLE CHARACTERISTICS



TIME:t(ms)
I_{FSM}-t CHARACTERISTICS

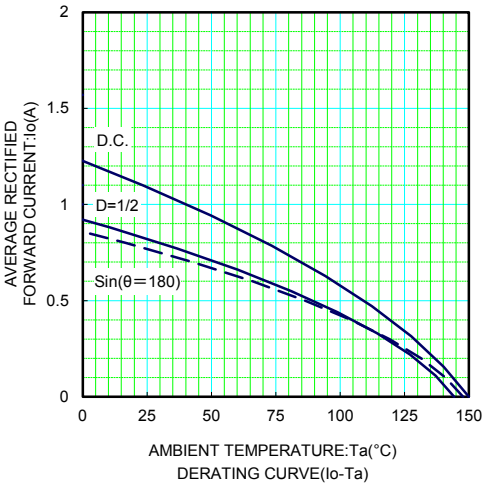


TIME:t(s)
Rth-t CHARACTERISTICS

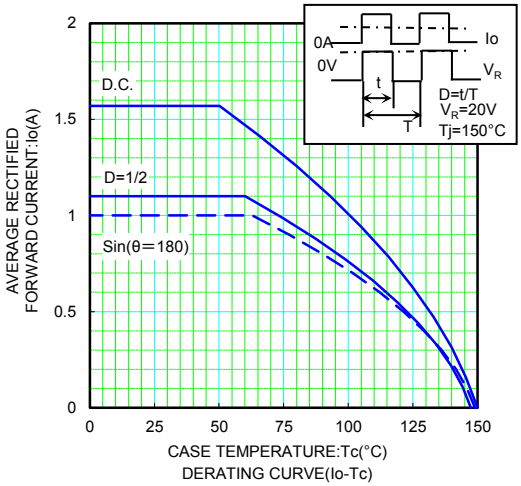


AVERAGE RECTIFIED
FORWARD CURRENT : Io(A)
Io-Pf CHARACTERISTICS

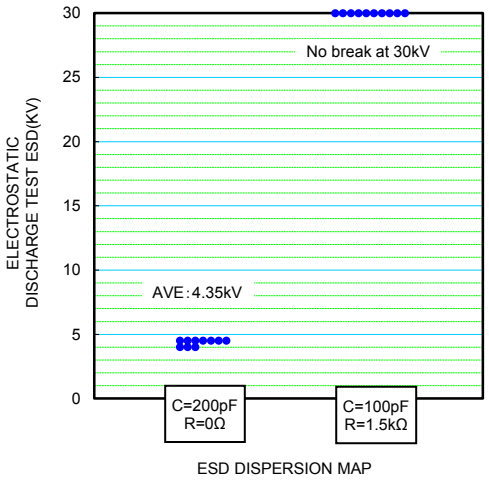
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DERATING CURVE(Io-Ta)



DERATING CURVE(Io-Tc)



ESD DISPERSION MAP

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