Schottky Barrier Diode

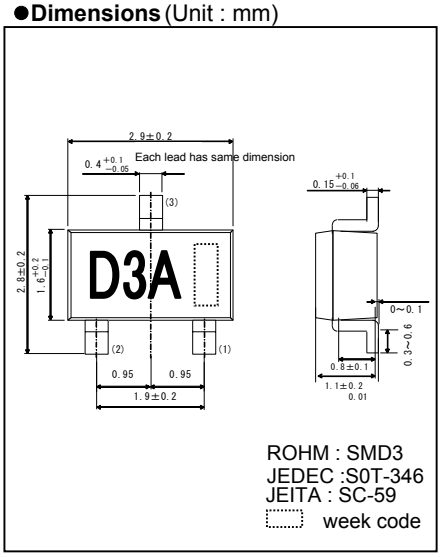
RB400D

●Applications
Low current rectification

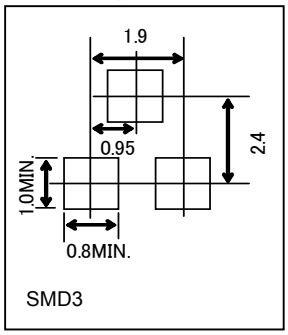
●Features
1) Small mold type. (SMD3)
2) Low I_R
3) High reliability.

●Construction
Silicon epitaxial planer

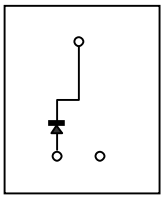
●Dimensions (Unit : mm)



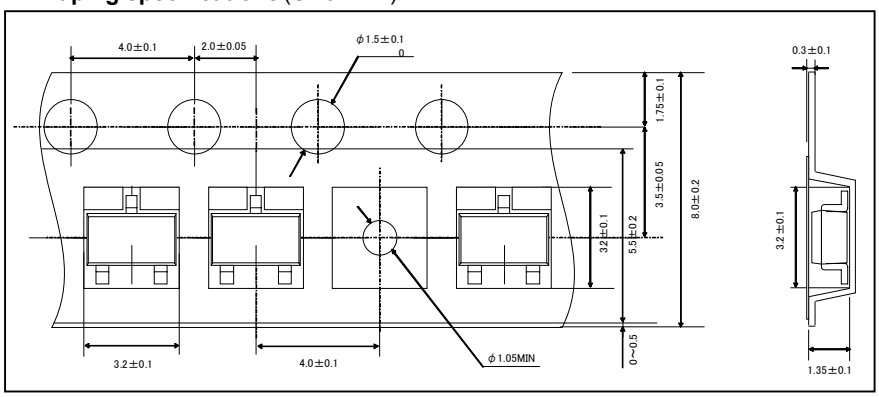
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

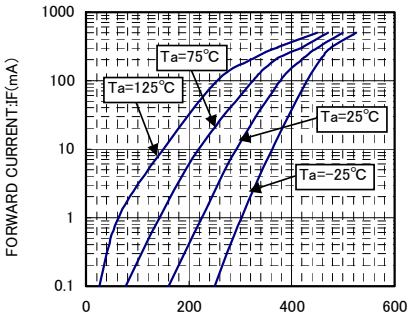
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current(*1)	Io	500	mA
Forward current surge peak (60Hz / 1cyc)(*1)	I_{FSM}	3	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40 to +125	°C

(*1) Rating of per diode

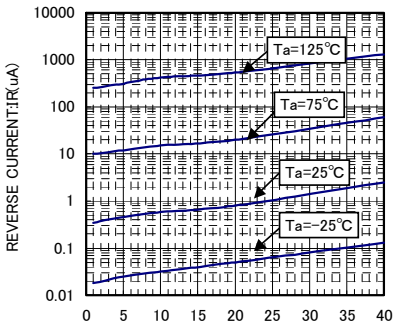
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.55	V	I_F=500mA
Reverse current	I_R1	-	-	30	μA	V_R=10V
	I_R2	-	-	50	μA	V_R=30V
Capacitance between terminals	Ct1	-	125	-	pF	V_R=0V , f=1MHz
	Ct2	-	20	-	pF	V_R=10V , f=1MHz

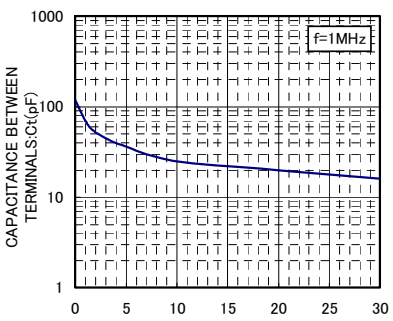
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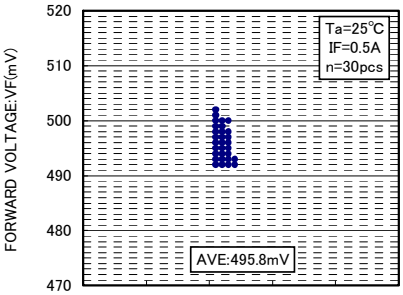
VF-IF CHARACTERISTICS



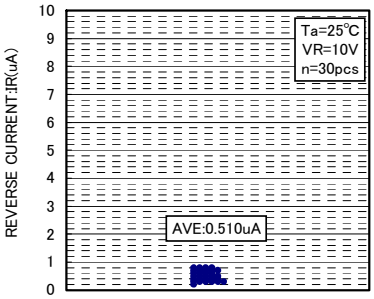
VR-IR CHARACTERISTICS



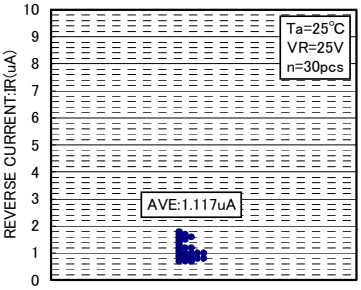
VR-Ct CHARACTERISTICS



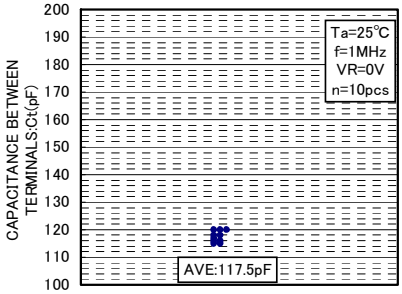
VF DISPERSION MAP



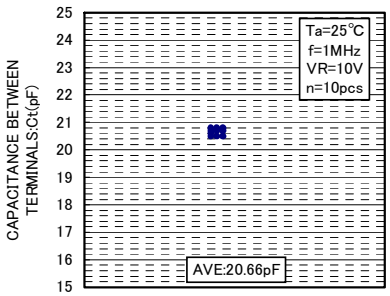
IR DISPERSION MAP



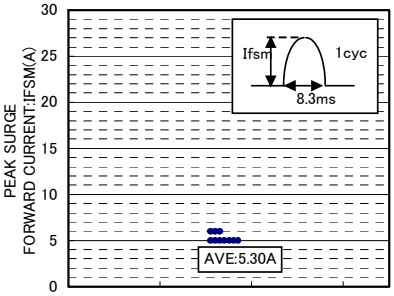
IR DISPERSION MAP



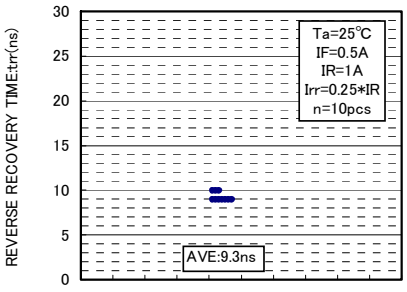
Ct DISPERSION MAP



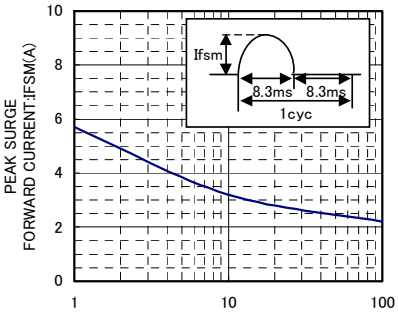
Ct DISPERSION MAP



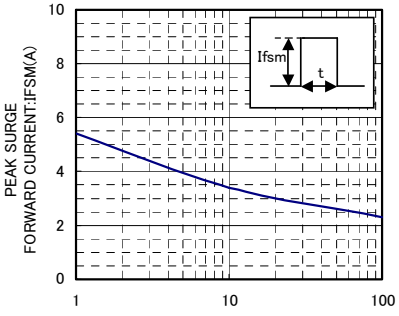
IFSM DISRESION MAP



trr DISPERSION MAP

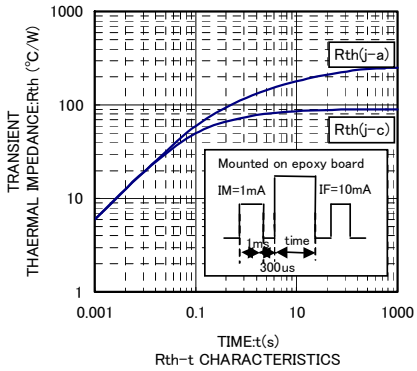


IFSM-CYCLE CHARACTERISTICS

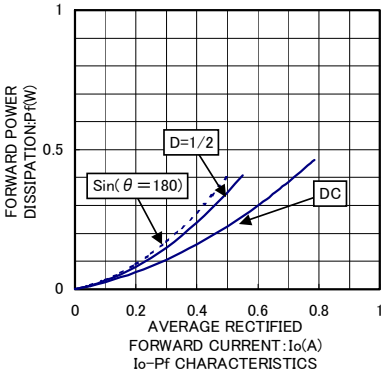


IFSM-t CHARACTERISTICS

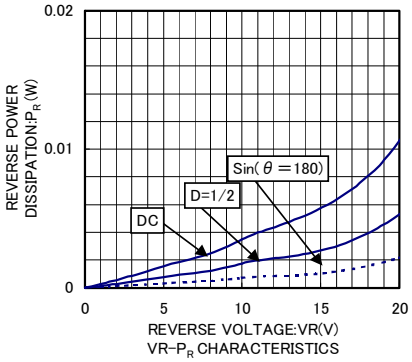
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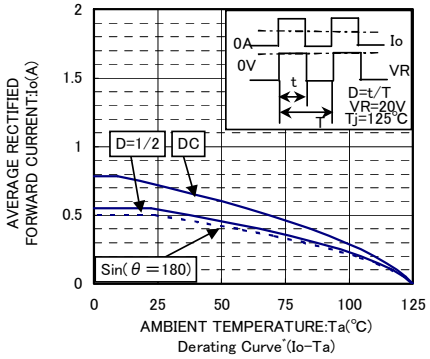
Rth-t CHARACTERISTICS



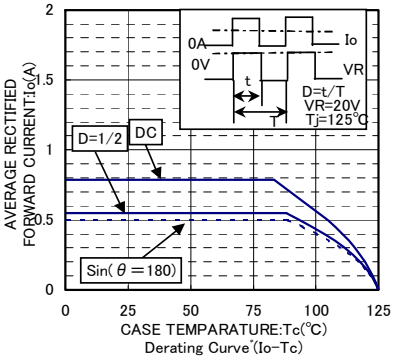
Io-Pf CHARACTERISTICS



$VR-P_R$ CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve (Io-Tc)

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