Schottky Barrier Diode

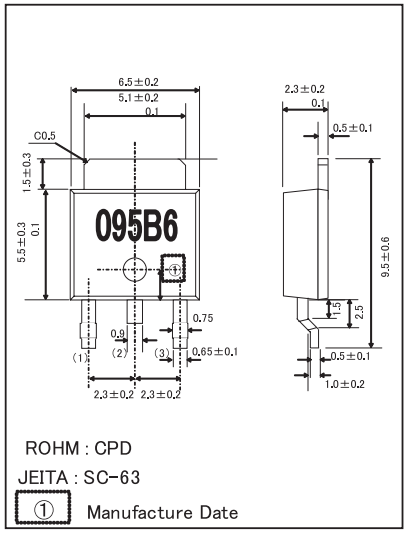
RB095B-60

●Applications
General rectification

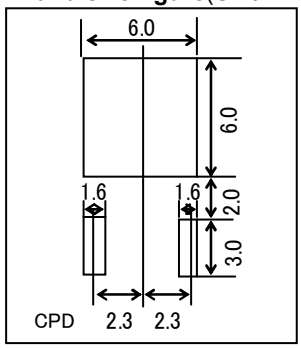
●Features
1) Power mold type. (CPD3)
2) Low V_F
3) High reliability

●Construction
Silicon epitaxial planar

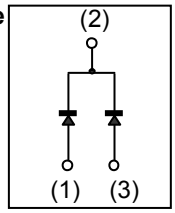
●Dimensions(Unit : mm)



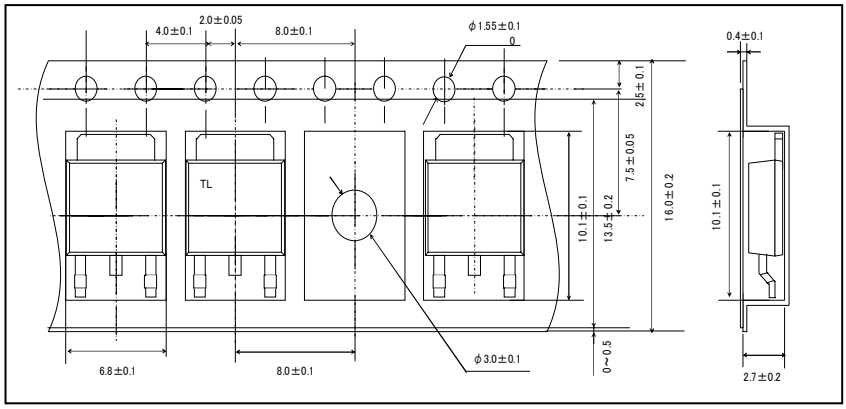
●Land size figure(Unit : mm)



●Structure



●Taping dimensions(Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	Io	6	A
Forward current surge peak(60Hz･1cyc)(*1)	I_{FSM}	45	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-40 to +150	°C

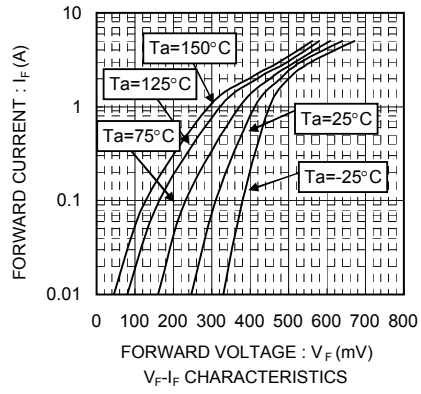
(*1) Business frequencies, Rating of R-load, 1/2 Io per diode, Tc=112°C

●Electrical characteristic (Ta=25°C)

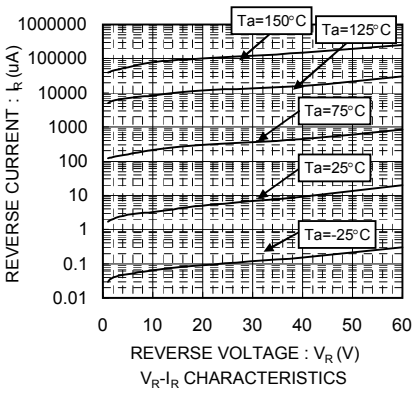
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.58	V	I_F=3.0A
Reverse current	I_R	-	-	300	μA	V_R=60V
Thermal impedance	θjc	-	-	6.0	°C/W	junction to case

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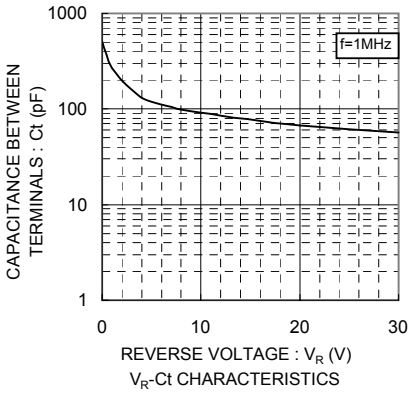
●Electrical charcteristics curves



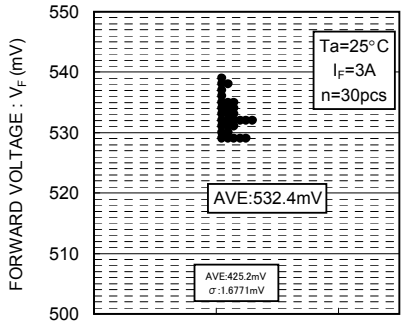
V_F-I_F CHARACTERISTICS



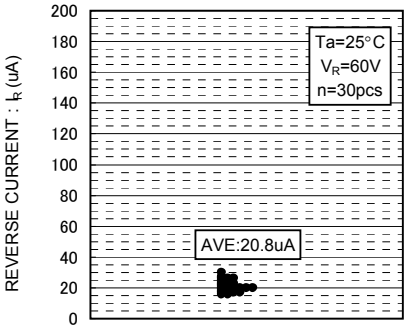
V_R-I_R CHARACTERISTICS



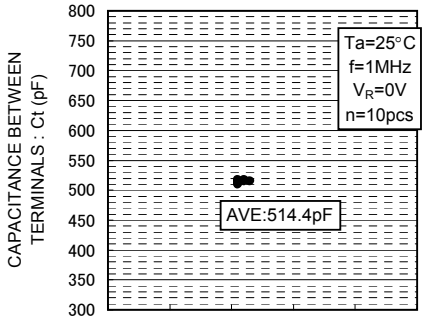
V_R-Ct CHARACTERISTICS



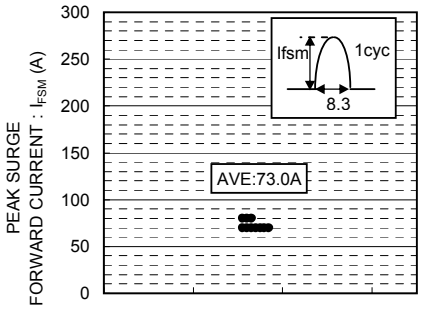
V_F DISPERSION MAP



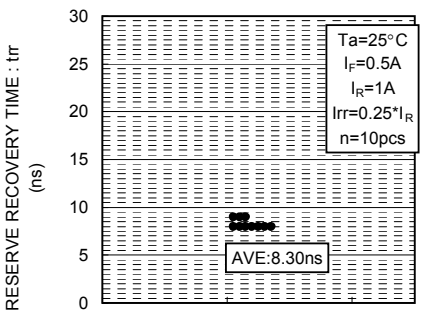
I_R DISPERSION MAP



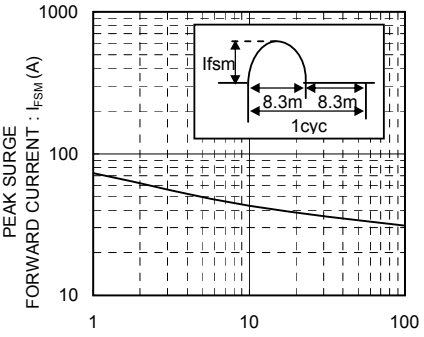
Ct DISPERSION MAP



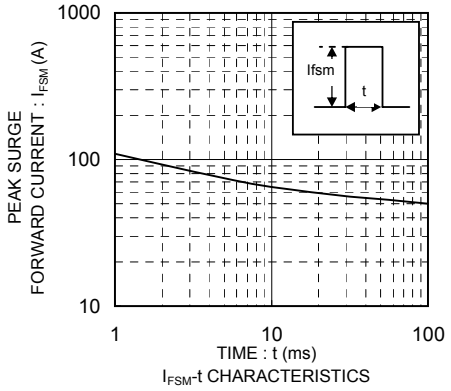
I_{FSM} DISPERSION MAP



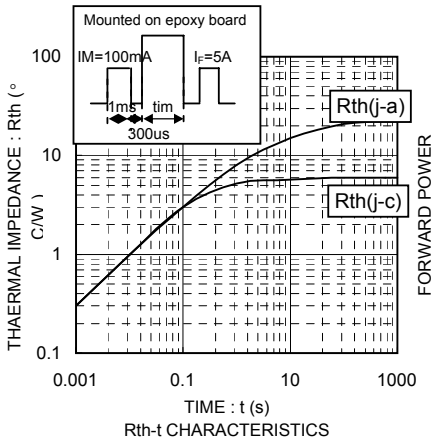
trr DISPERSION MAP



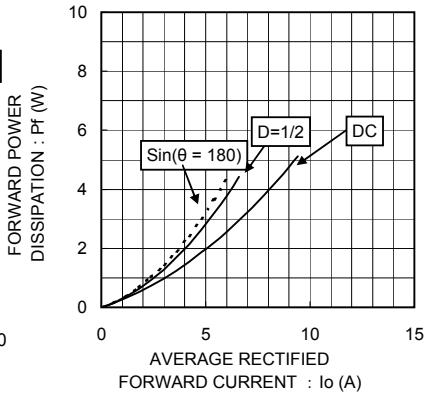
I_{FSM}-CYCLE CHARACTERISTICS



I_{FSM}-t CHARACTERISTICS

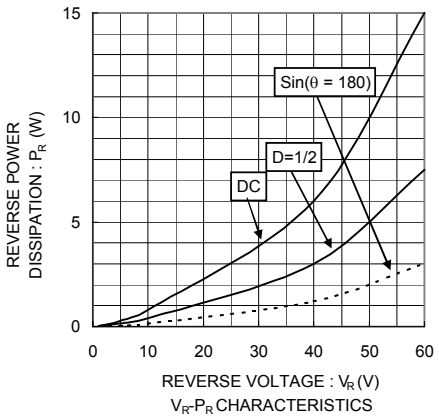


Rth-t CHARACTERISTICS

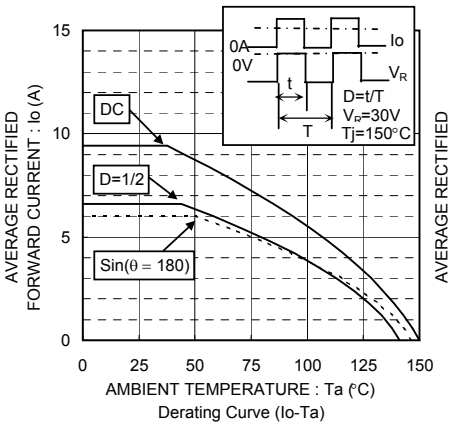


Io-Pf CHARACTERISTICS

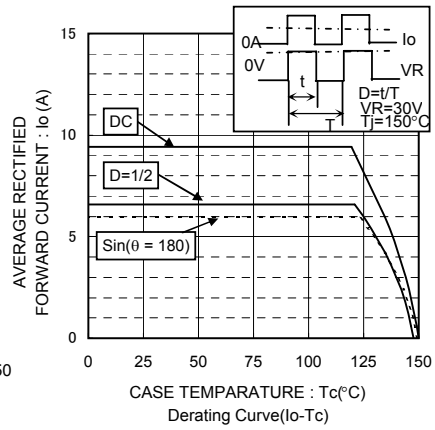
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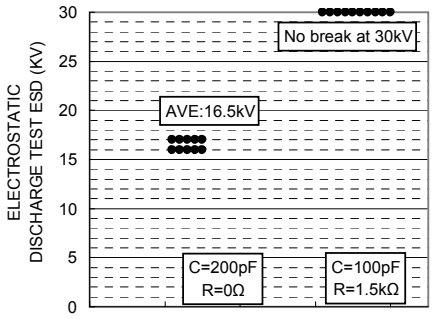
V_R-P_R CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve(Io-Tc)



ESD DISPERSION MAP

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