

Schottky Barrier Diode

RB085B-90

●Application

General rectification

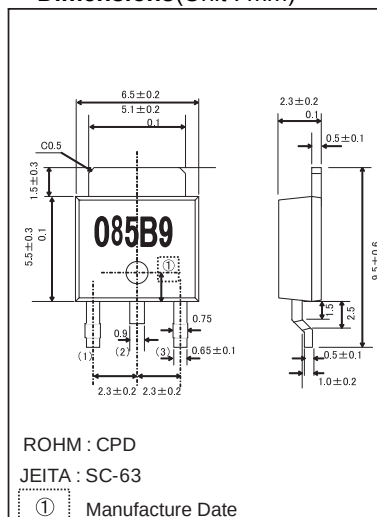
●Features

- 1) Power mold type.(CPD)
- 2) Low V_F
- 3) High reliability

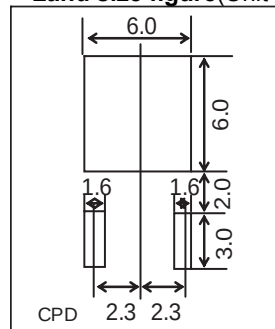
●Construction

Silicon epitaxial planar

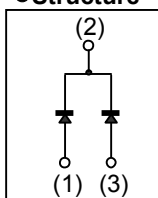
●Dimensions(Unit : mm)



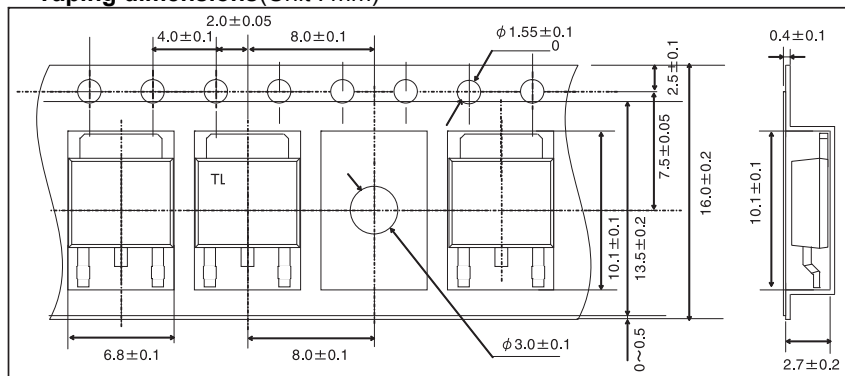
●Land size figure(Unit : mm)



●Structure



●Taping dimensions(Unit : mm)



●Absolute maximum ratings(Ta=25°C)

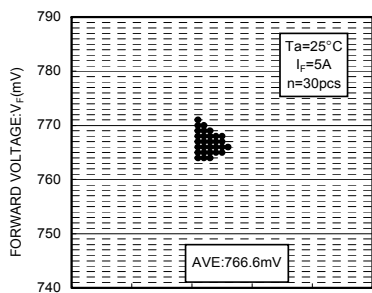
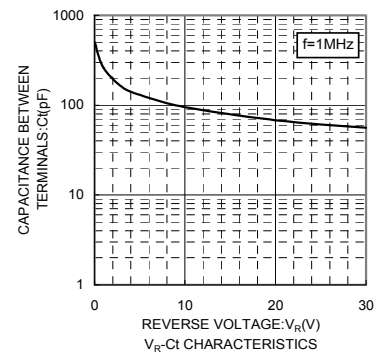
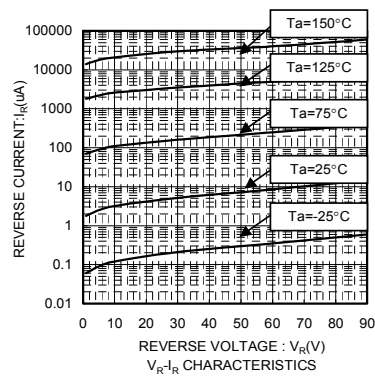
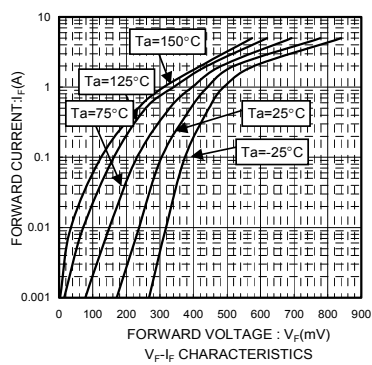
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	90	V
Reverse voltage (DC)	V_R	90	V
Average rectified forward current(*1)	I_o	10	A
Forward current surge peak(60Hz / 1cyc)(*1)	I_{FSM}	45	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1)Business frequencies, Rating of R-load, $T_c=85^\circ\text{C}$ Max.

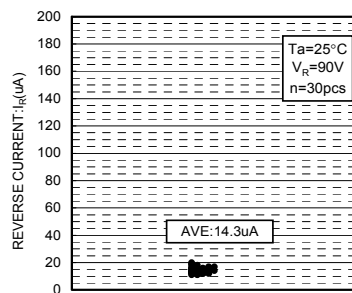
●Electrical characteristic(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.83	V	$I_F=5.0\text{A}$
Reverse current	I_R	-	-	150	μA	$V_R=90\text{V}$
Thermal impedance	θ_{jc}	-	-	6.0	°C/W	junction to case

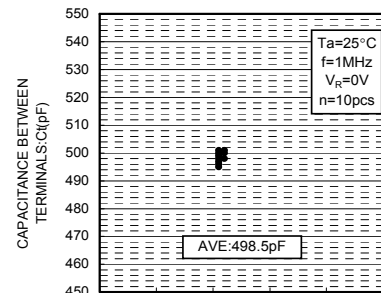
●Electrical characteristic curves



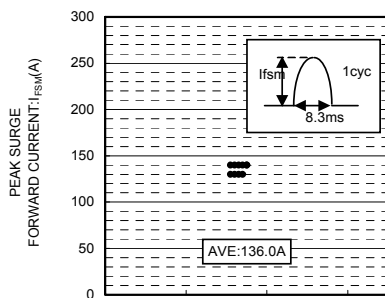
V_F DISPERSION MAP



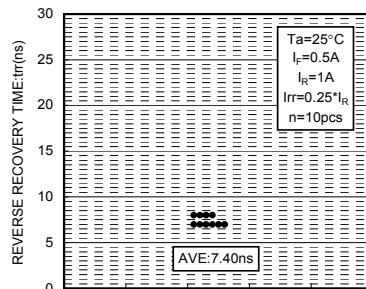
I_R DISPERSION MAP



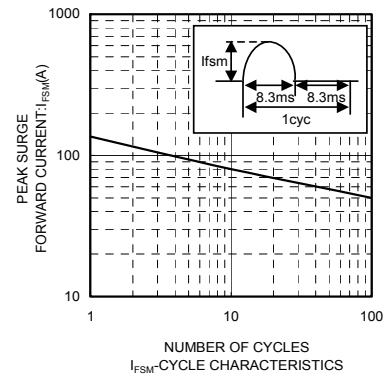
C_t DISPERSION MAP

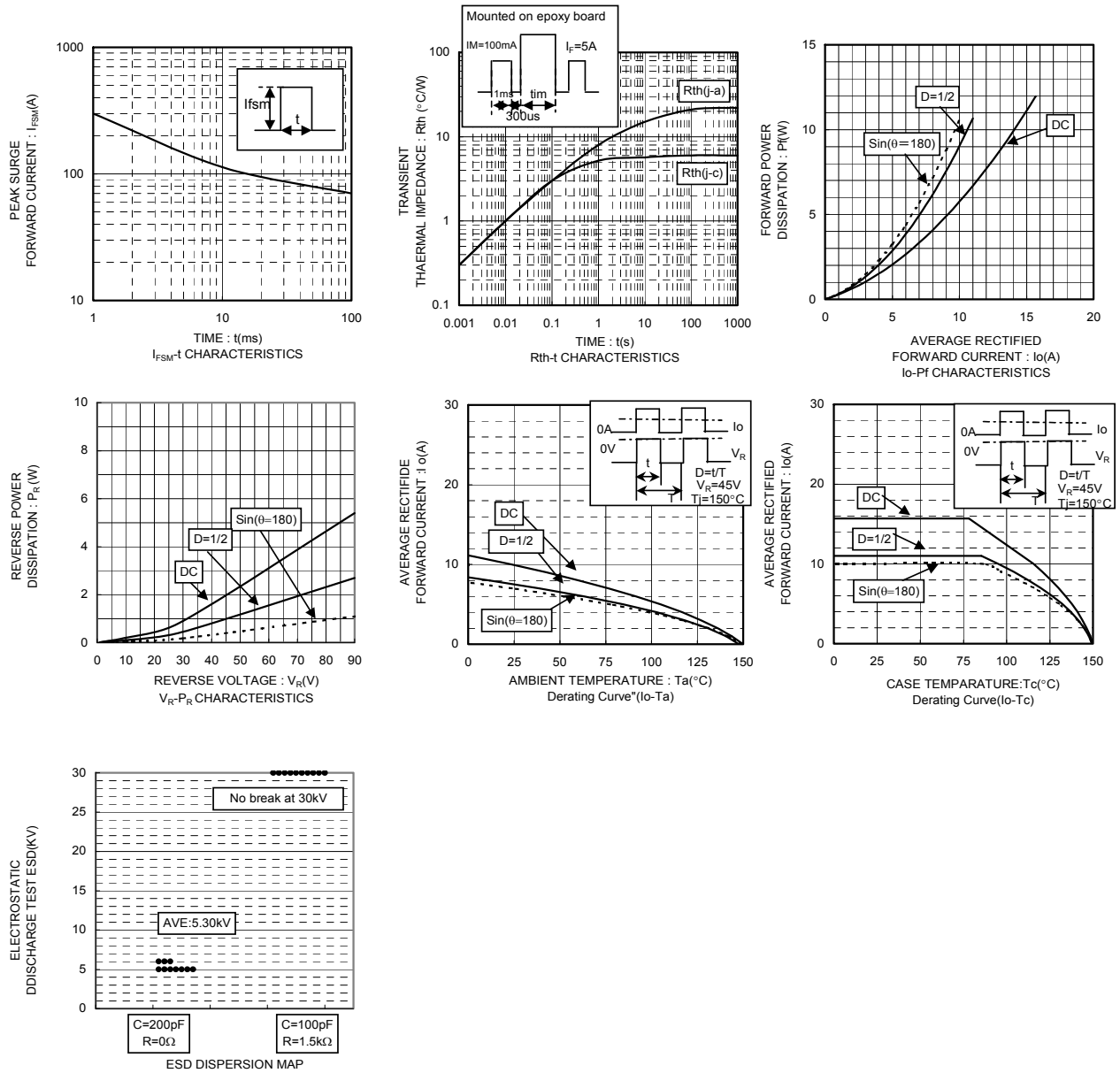


I_{FSM} DISPERSION MAP



t_{rr} DISPERSION MAP





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