

●Application

General rectification

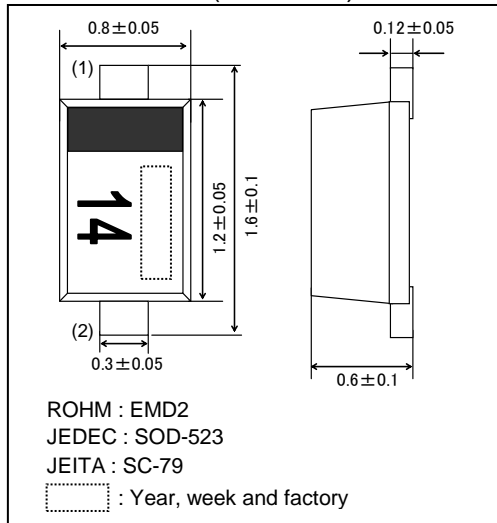
●Features

- 1) Ultra small mold type (EMD2)
- 2) High reliability
- 3) Super low V_F

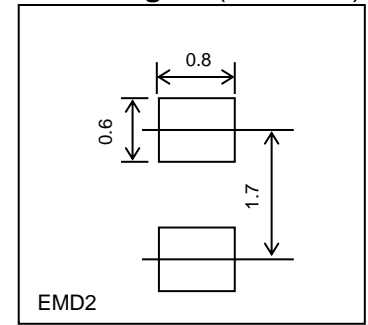
●Construction

Silicon epitaxial planar type

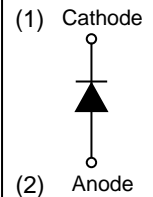
●Dimensions (Unit : mm)



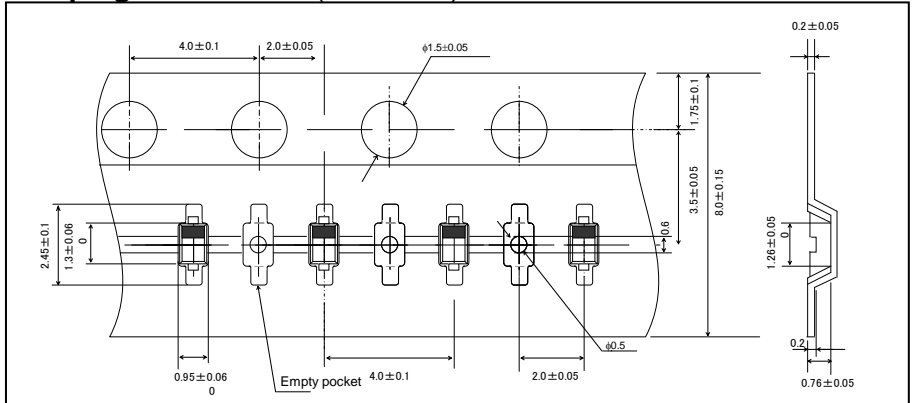
●Land Size Figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



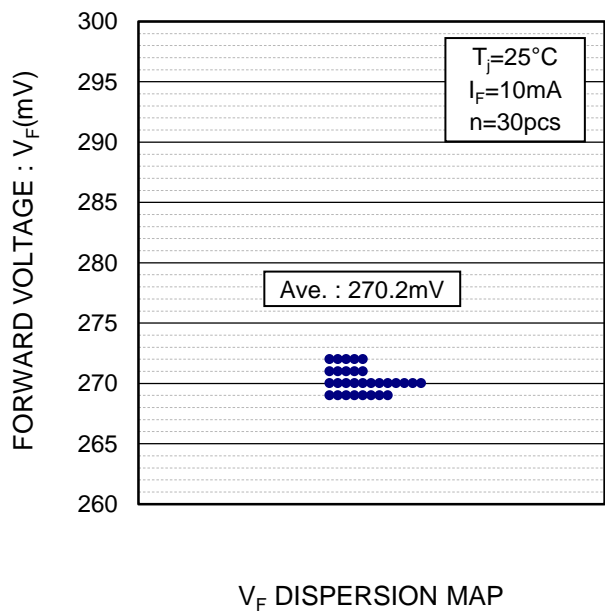
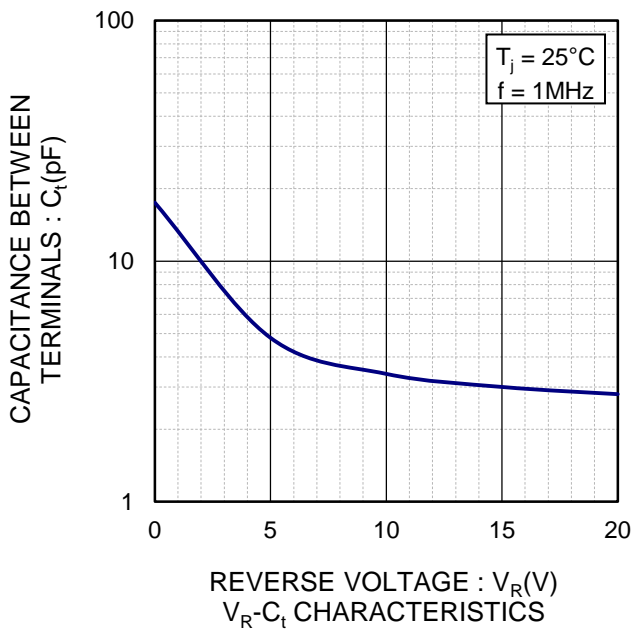
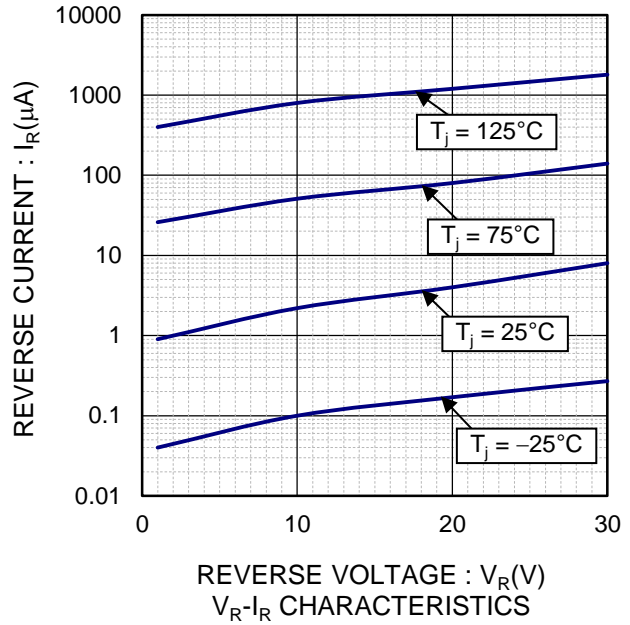
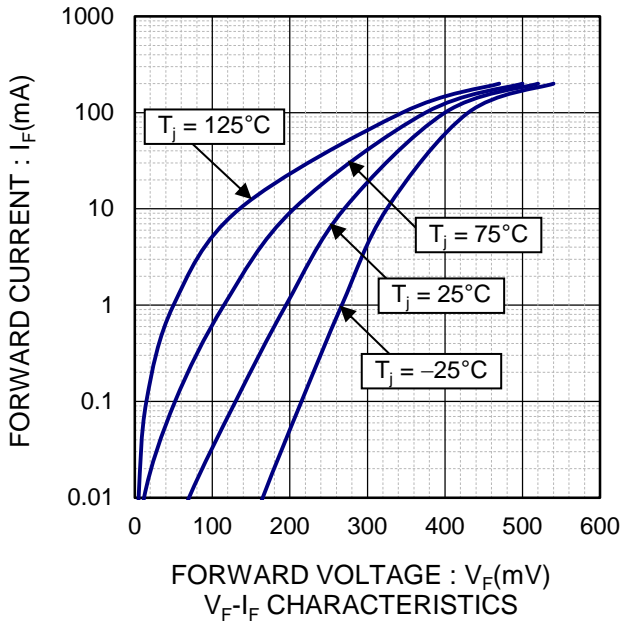
●Absolute Maximum Ratings ($T_C=25^\circ\text{C}$)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤ 0.5	30	V
Reverse voltage	V_R	Direct reverse voltage	30	V
Average forward rectified current	I_o	Glass epoxy board mounted, 60Hz half sin wave, resistive load	100	mA
Non-repetitive forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive at $T_a=25^\circ\text{C}$, 1cycle	1000	mA
Operating junction temperature	T_j	-	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 to +125	$^\circ\text{C}$

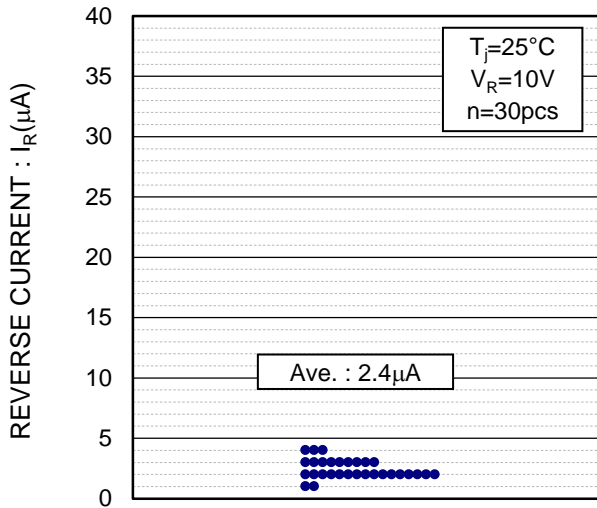
●Electrical Characteristics ($T_j=25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=10\text{mA}$	-	-	0.35	V
Reverse current	I_R	$V_R=10\text{V}$	-	-	10	μA

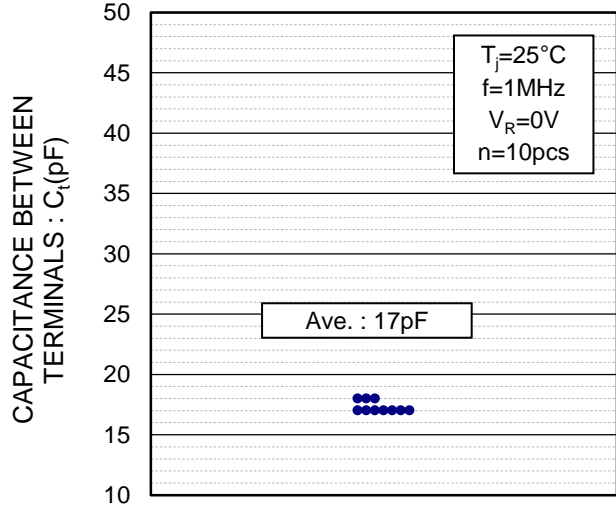
●Electrical Characteristic Curves



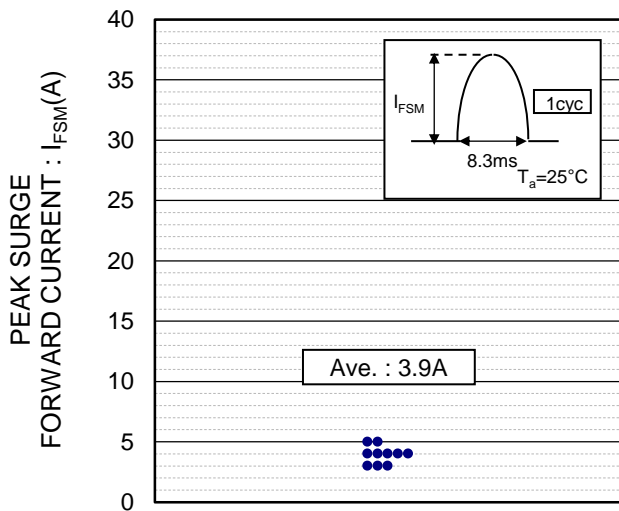
●Electrical Characteristic Curves



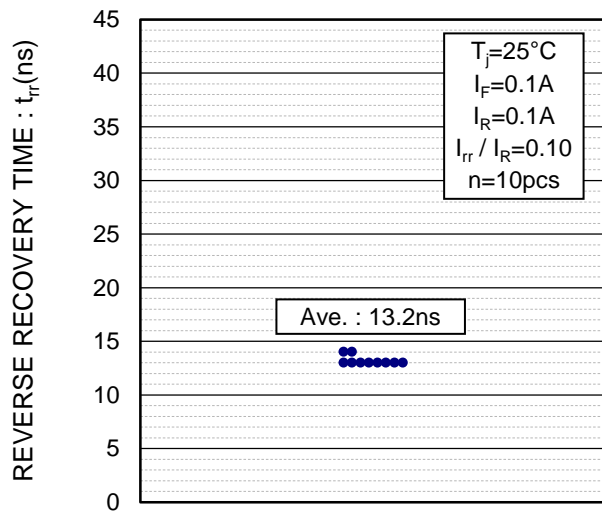
I_R DISPERSION MAP



C_t DISPERSION MAP

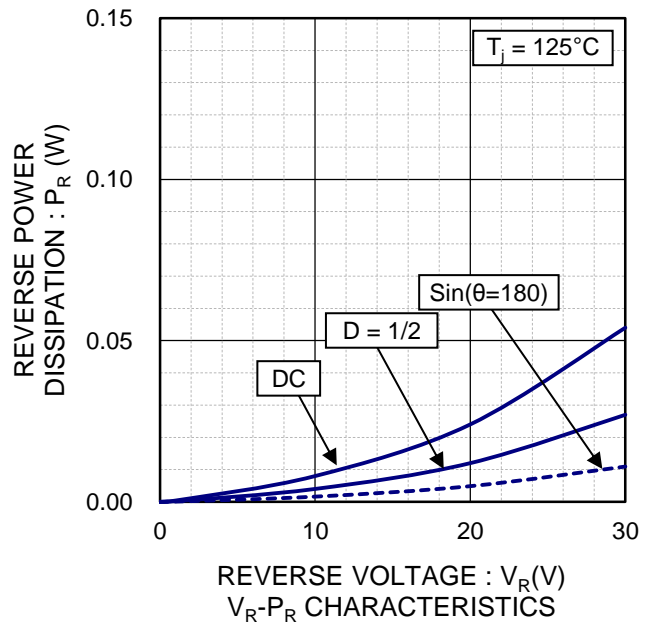
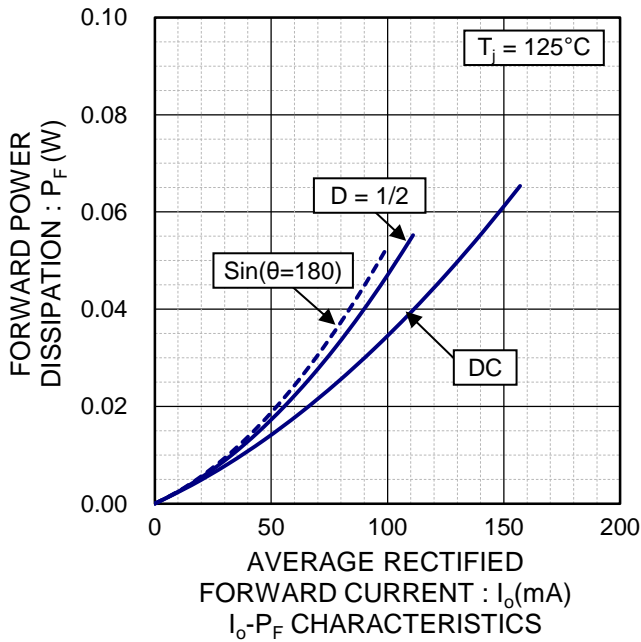
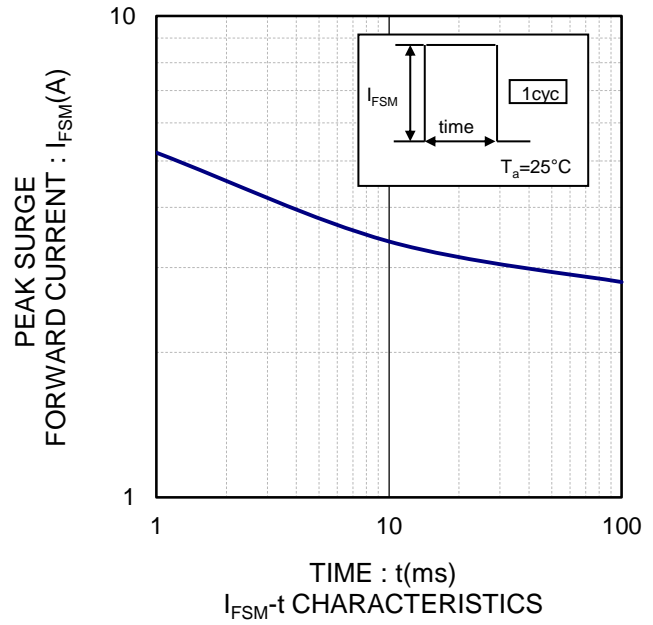
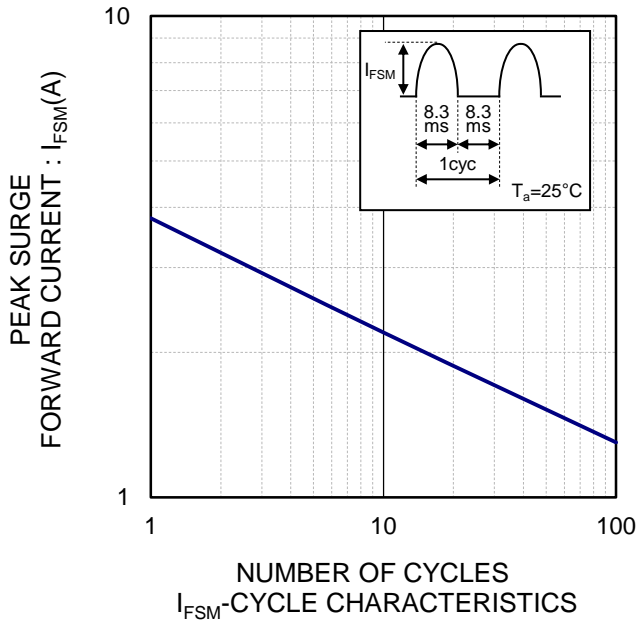


I_{FSM} DISPERSION MAP

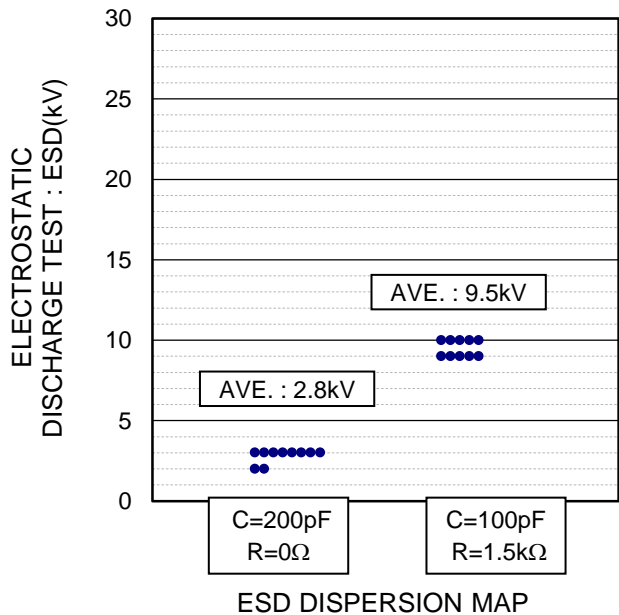
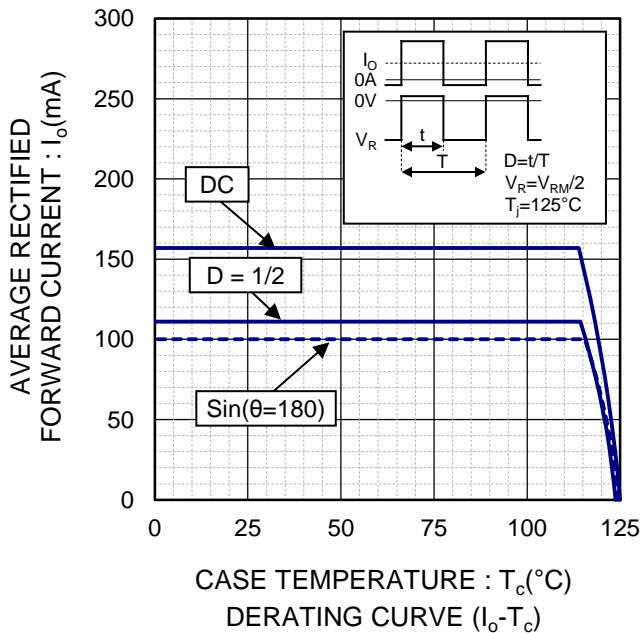
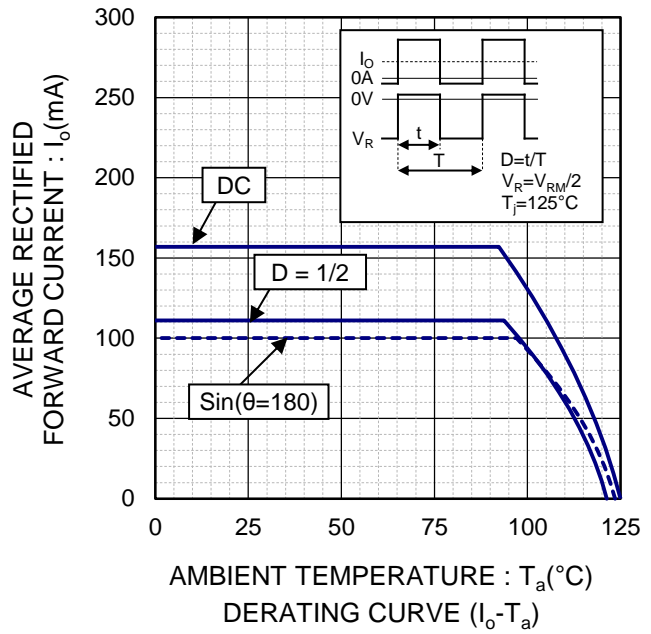
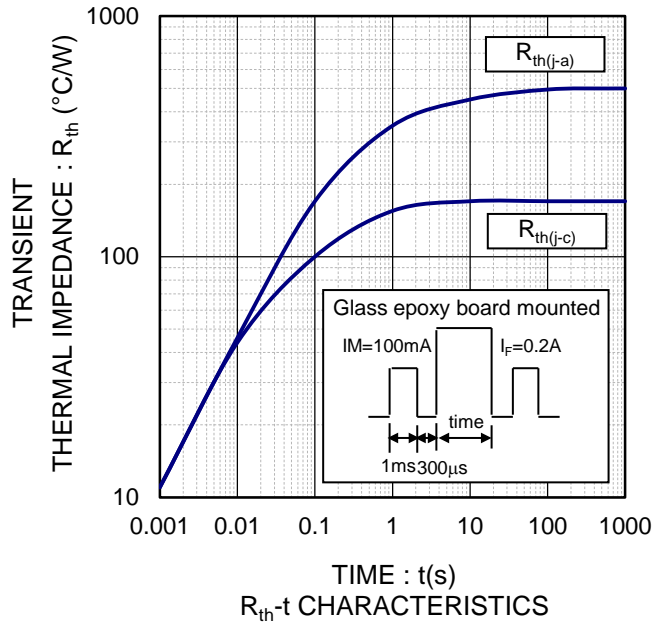


t_{rr} DISPERSION MAP

●Electrical Characteristic Curves



●Electrical Characteristic Curves



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