

### ●Application

General rectification

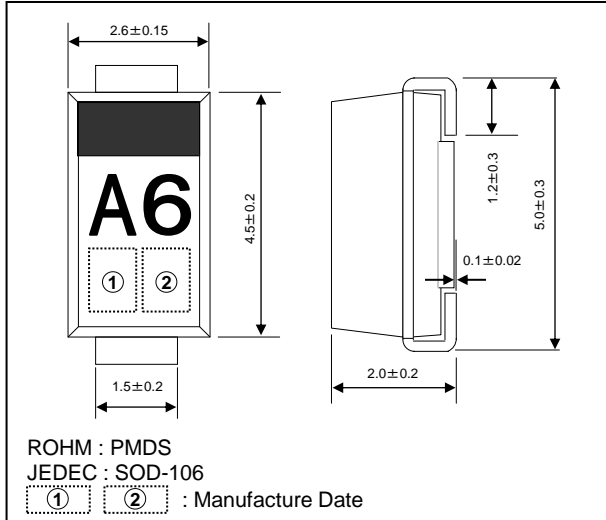
### ●Features

- 1) Small power mold type (PMDS)
- 2) High reliability
- 3) Low  $V_F$

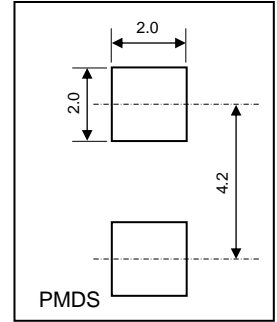
### ●Construction

Silicon epitaxial planar type

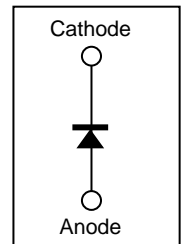
### ●Dimensions (Unit : mm)



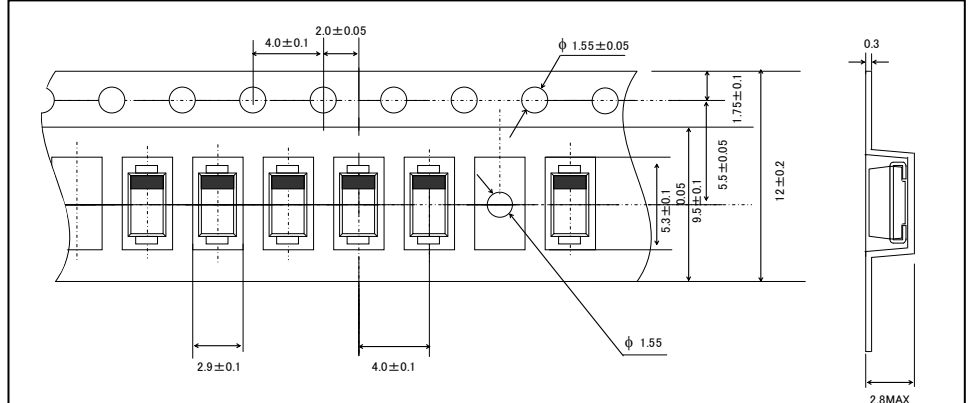
### ●Land Size Figure (Unit : mm)



### ●Structure



### ●Taping Dimensions (Unit : mm)



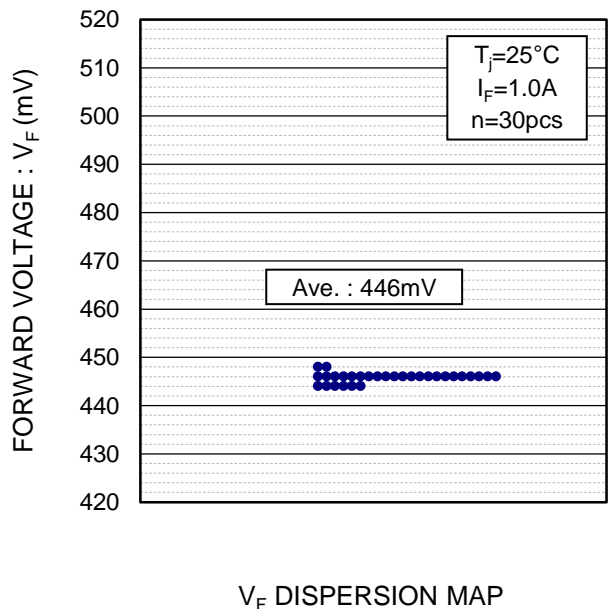
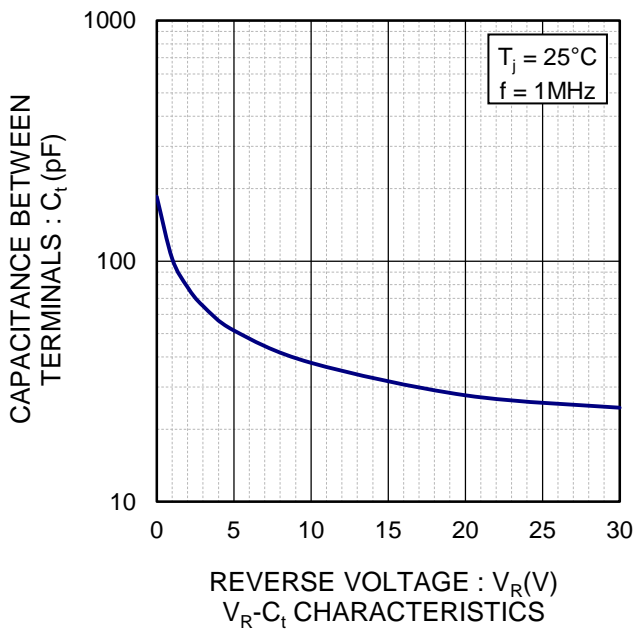
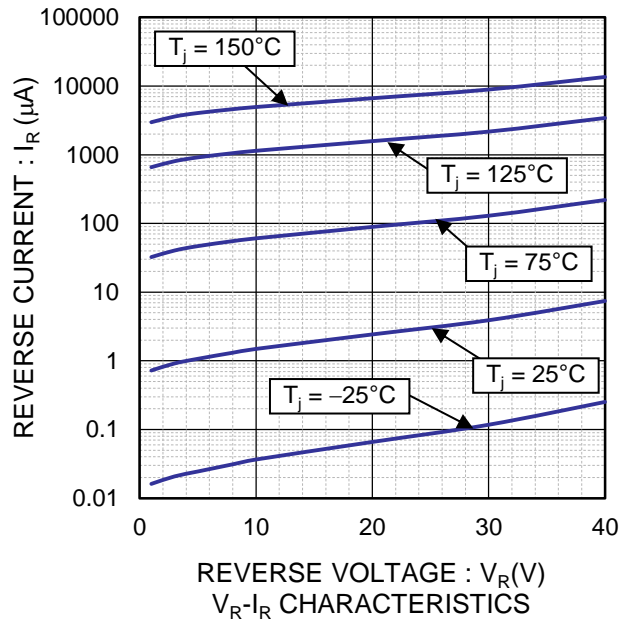
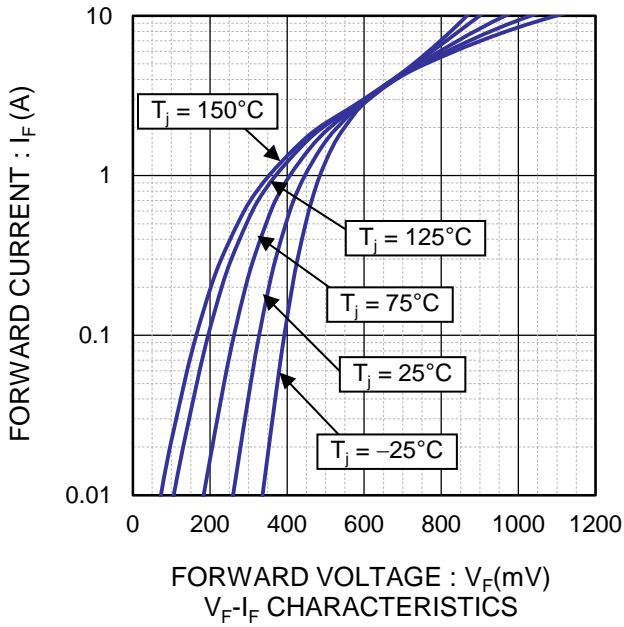
### ●Absolute Maximum Ratings ( $T_c=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty $\leq 0.5$	40	V
Reverse voltage	$V_R$	Direct reverse voltage	40	V
Average forward rectified current	$I_o$	Glass epoxy board mounted, 60Hz half sin wave, resistive load, $T_c=131^\circ\text{C}$ Max.	1	A
Non-repetitive forward current surge peak	$I_{FSM}$	60Hz half sin wave, one cycle, non-repetitive at $T_a=25^\circ\text{C}$	30	A
Operating junction temperature	$T_j$	-	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-	-55 to +150	$^\circ\text{C}$

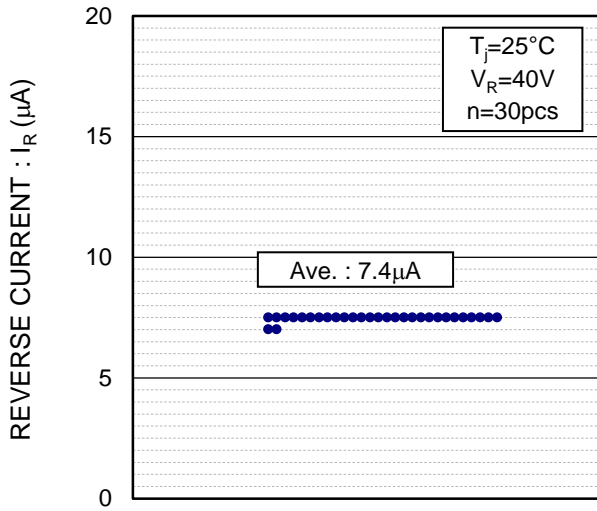
### ●Electrical Characteristics ( $T_j=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=1.0\text{A}$	-	-	0.52	V
Reverse current	$I_R$	$V_R=40\text{V}$	-	-	50	$\mu\text{A}$

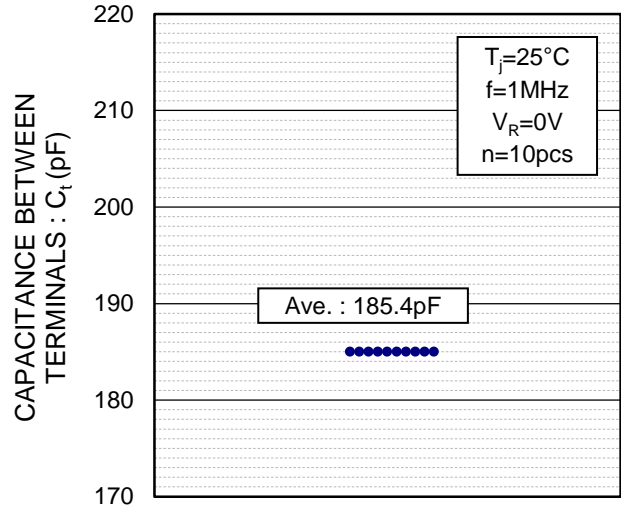
●Electrical Characteristic Curves



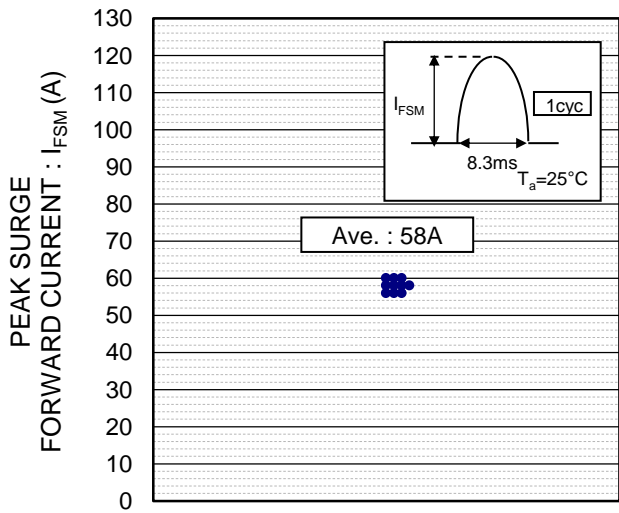
●Electrical Characteristic Curves



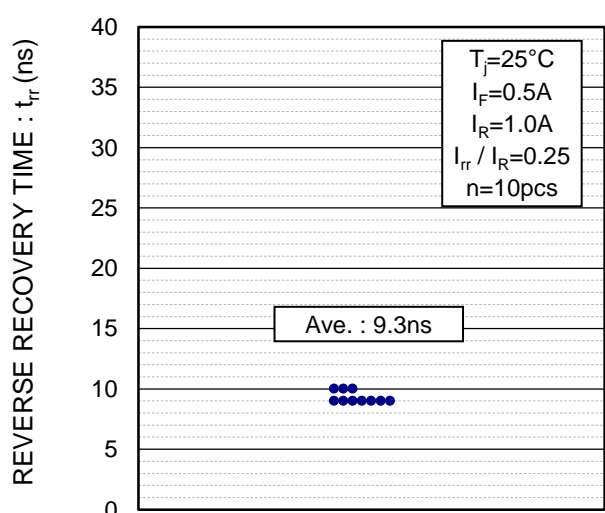
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP

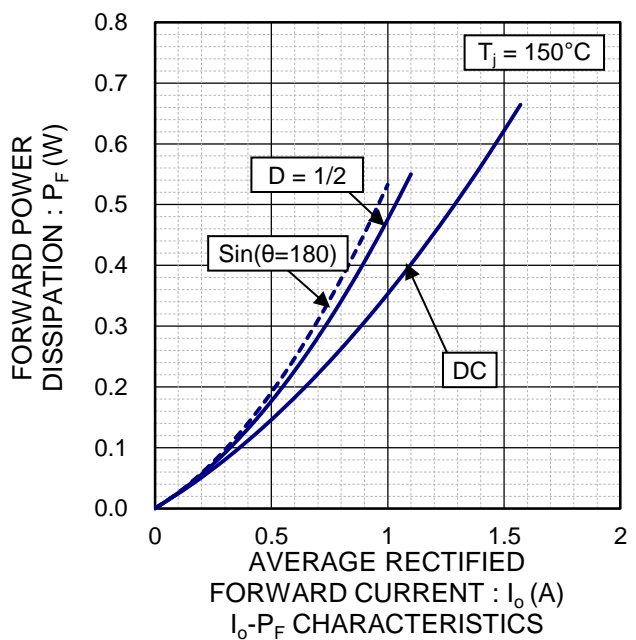
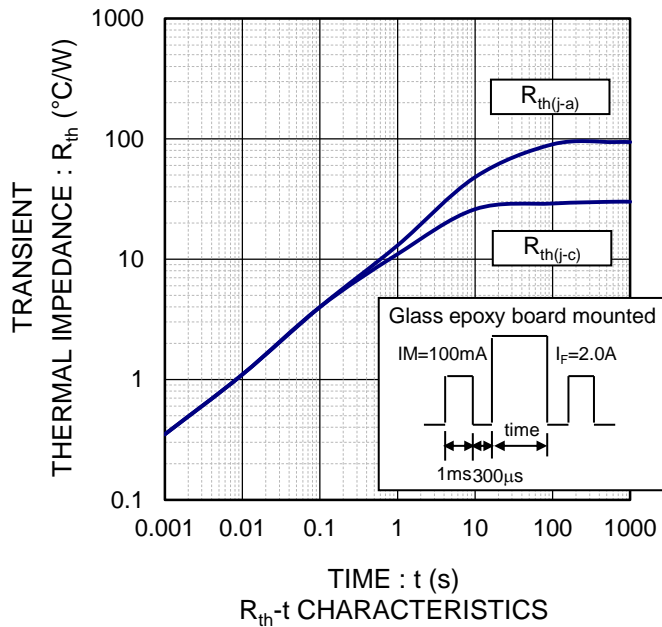
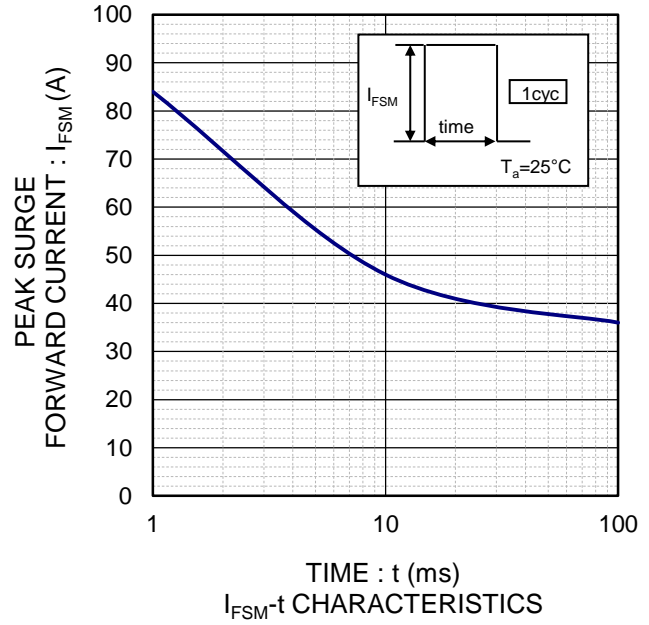
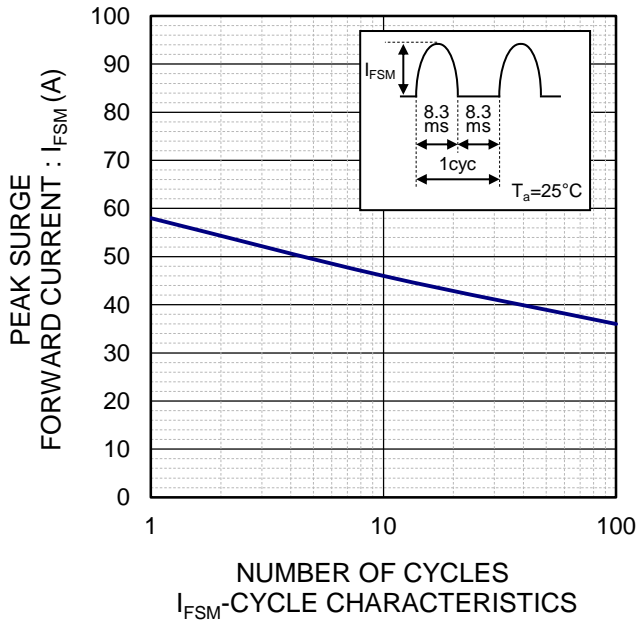


$I_{FSM}$  DISPERSION MAP

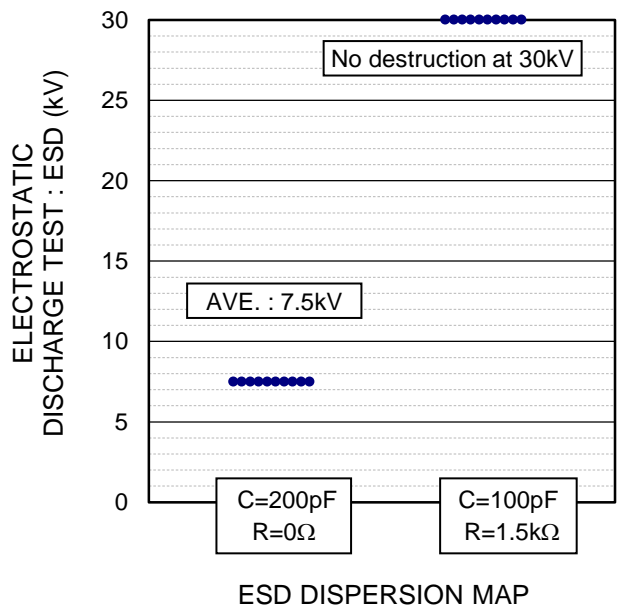
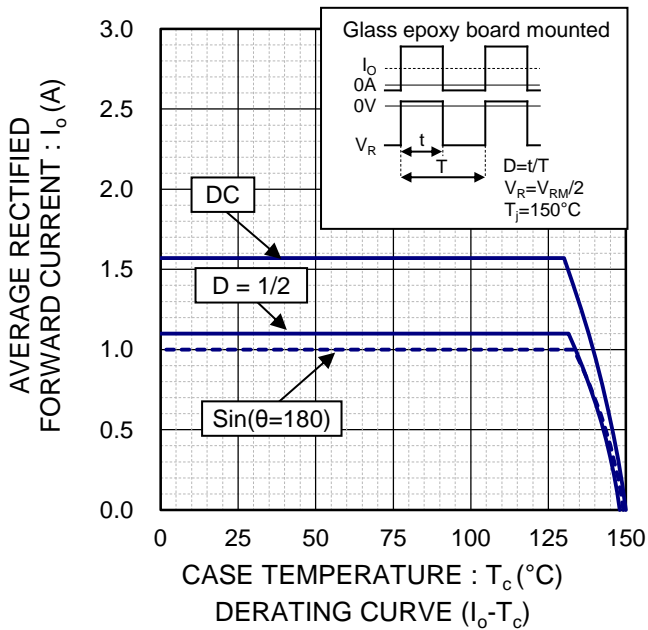
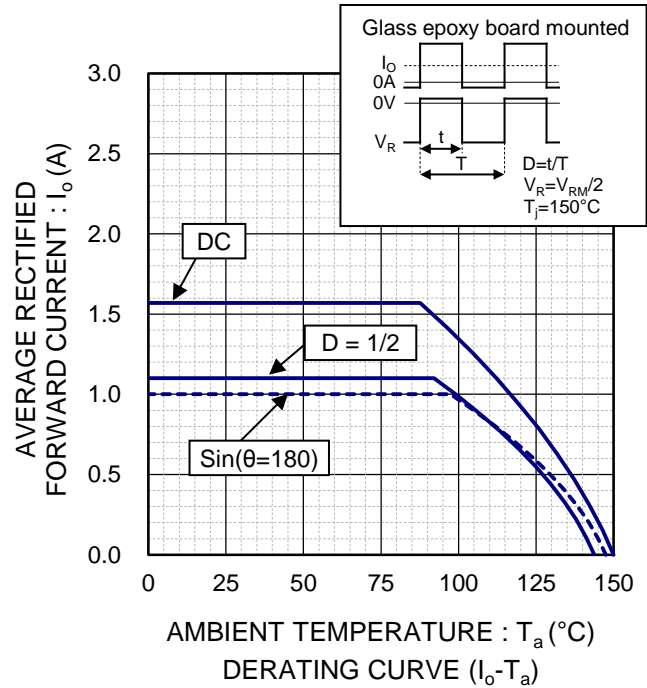
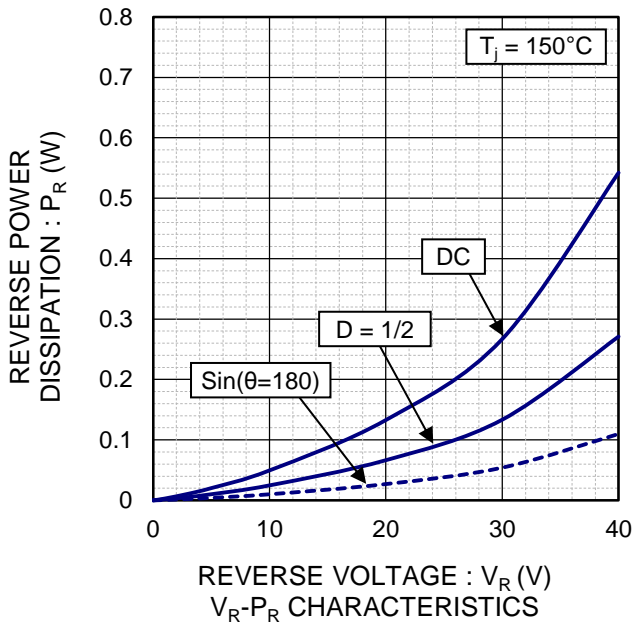


$t_{rr}$  DISPERSION MAP

●Electrical Characteristic Curves



●Electrical Characteristic Curves



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