

### ●Application

General rectification

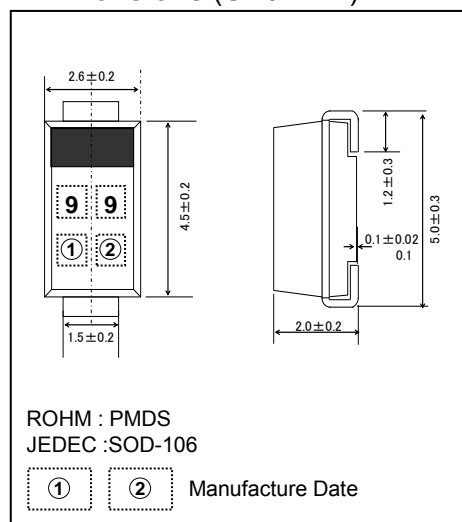
### ●Features

- 1) Small power mold type.(PMDS)
- 2) Ultra low  $I_R$
- 3) High reliability
- 4) AEC-Q101 qualified  
(Limited to HR type)

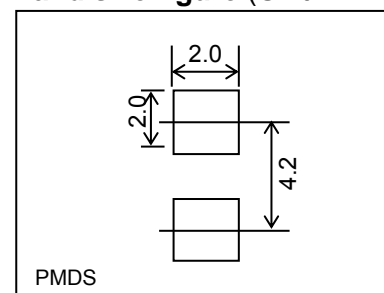
### ●Construction

Silicon epitaxial planar

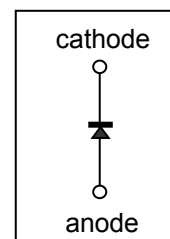
### ●Dimensions (Unit : mm)



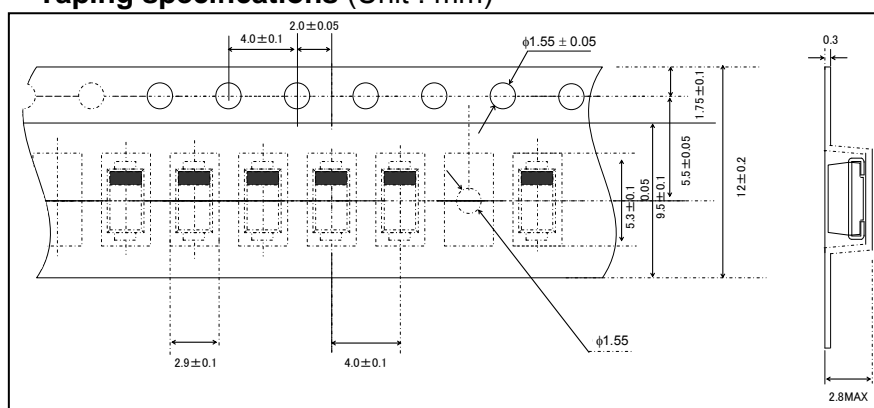
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

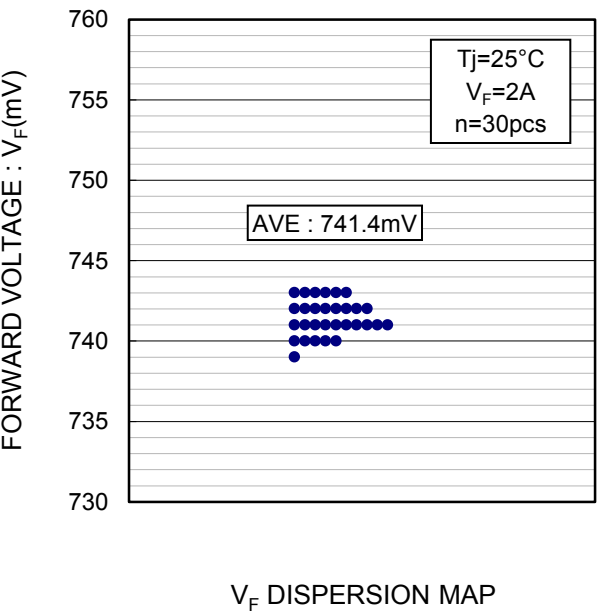
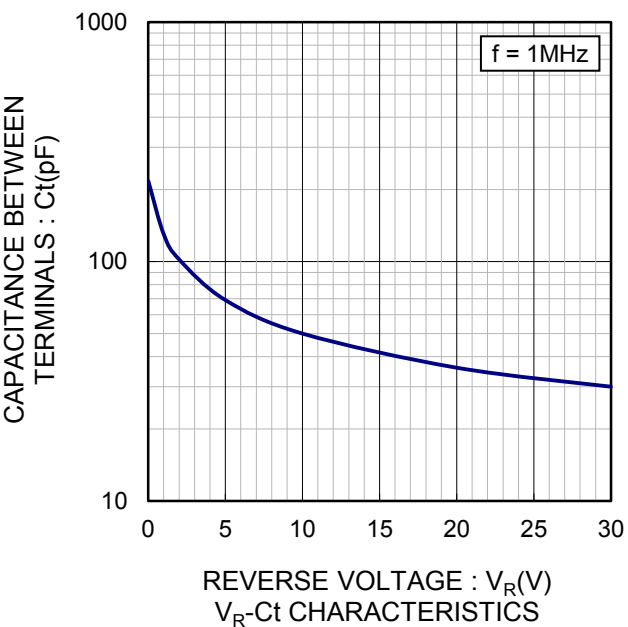
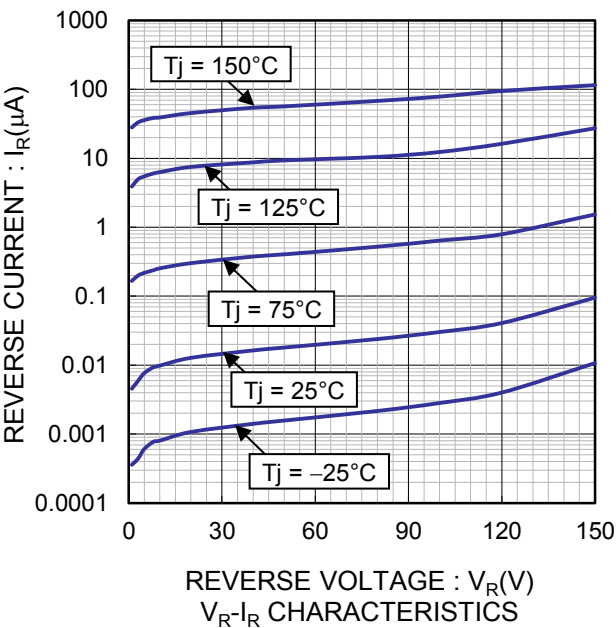
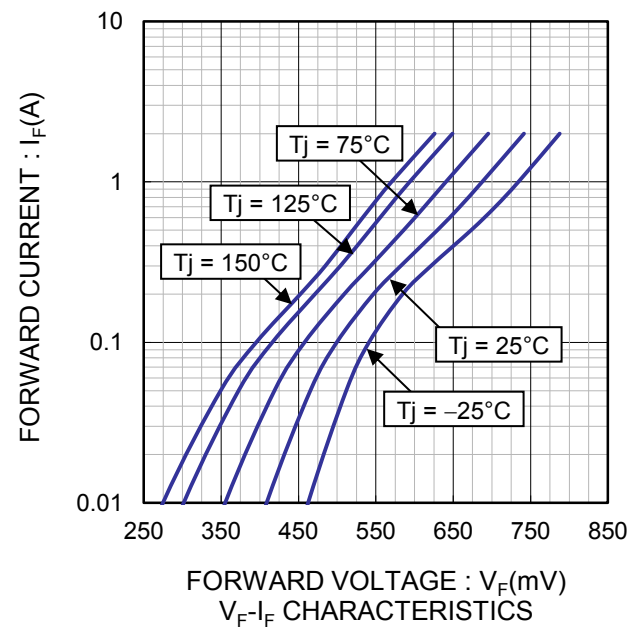
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	150	V
Reverse voltage (DC)	$V_R$	150	V
Average rectified forward current (*1)	$I_o$	2	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	50	A
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

(\*1) Mounting on epoxi board. 180°Half sine wave

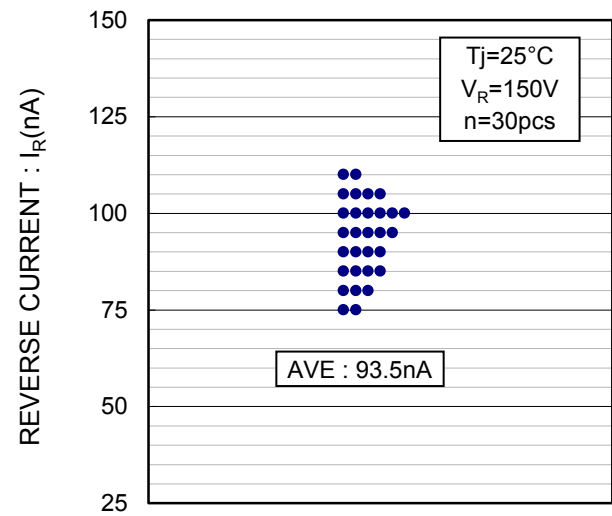
### ●Electrical characteristics ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.76	0.81	V	$I_F=2.0\text{A}$
Reverse current	$I_R$	-	0.1	3.0	$\mu\text{A}$	$V_R=150\text{V}$

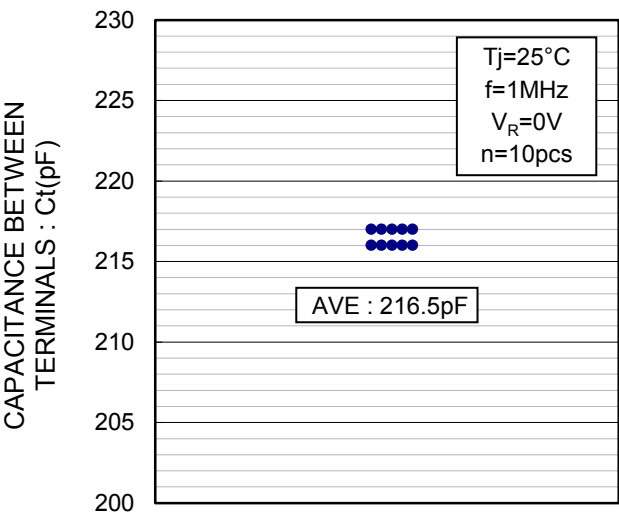
●Electrical characteristic curves



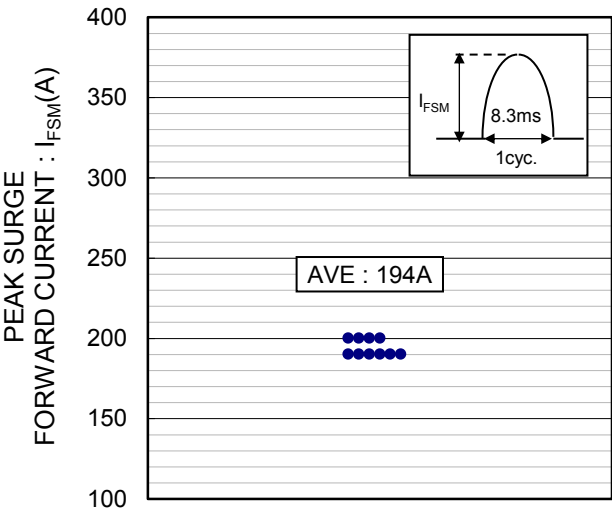
●Electrical characteristic curves



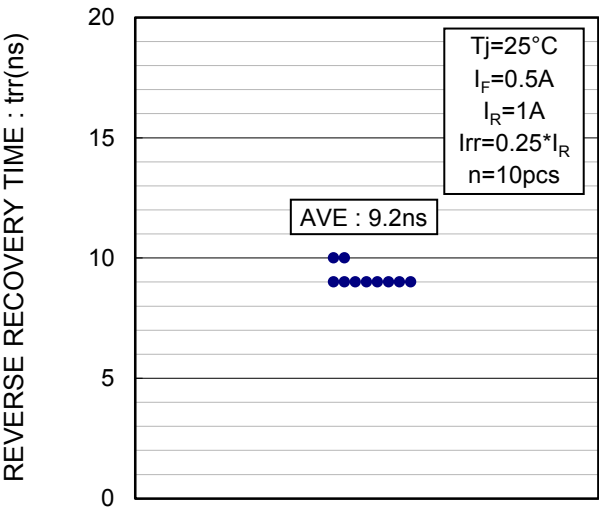
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP

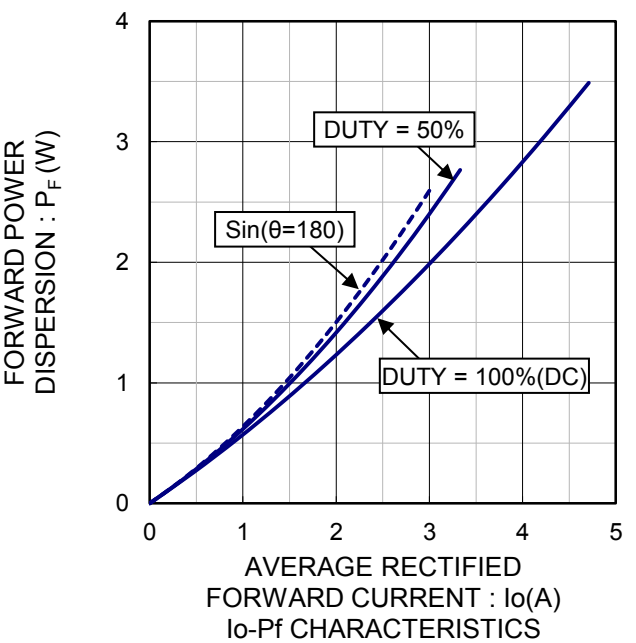
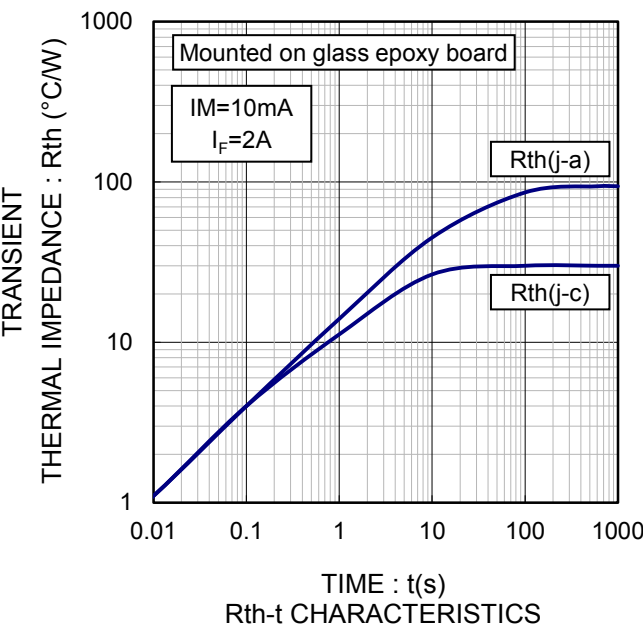
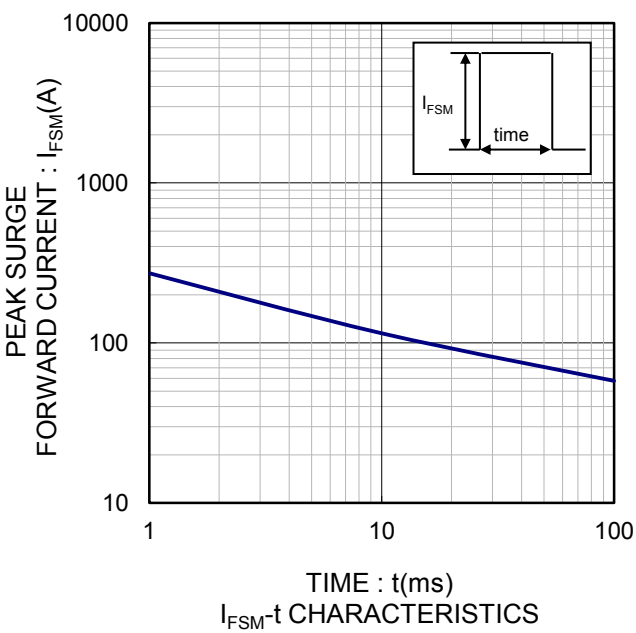
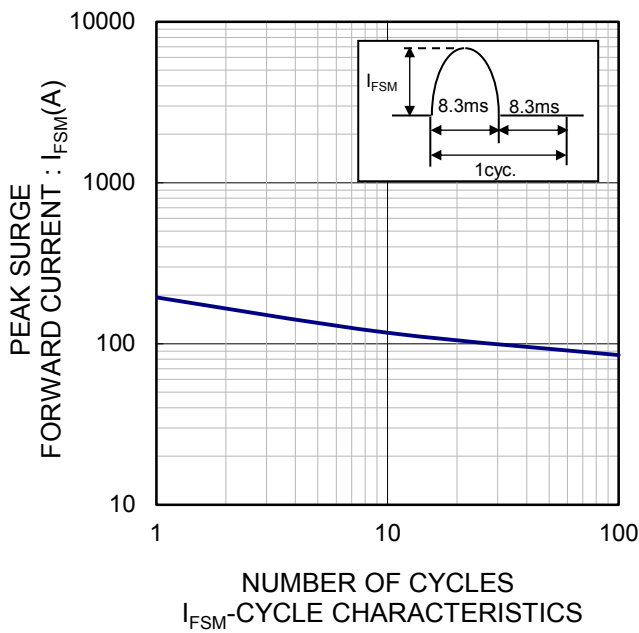


$I_{FSM}$  DISPERSION MAP

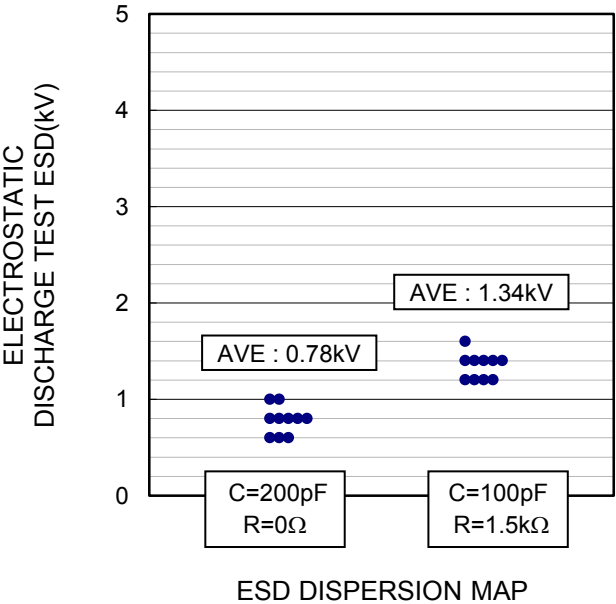
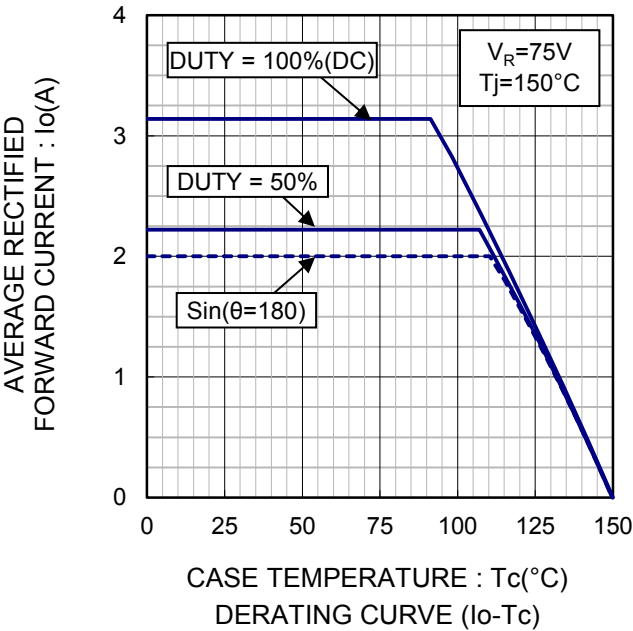
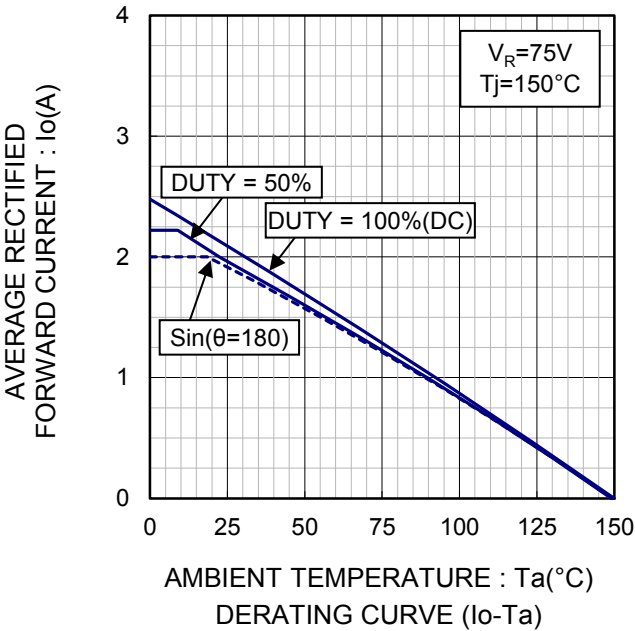
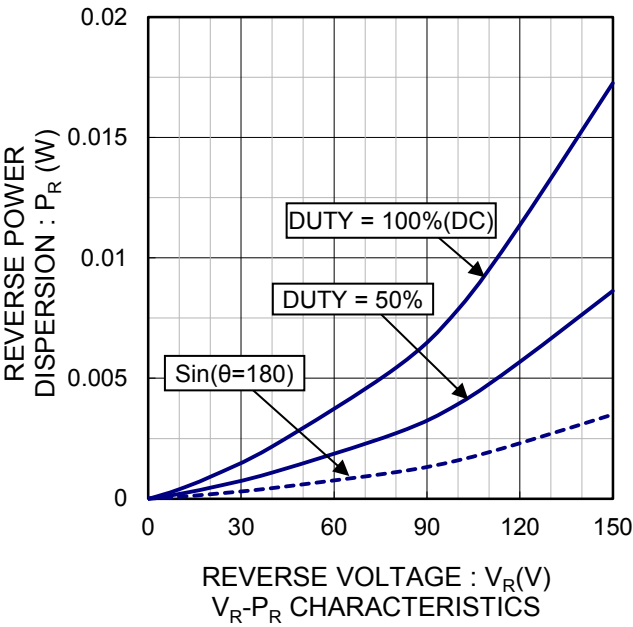


$t_{rr}$  DISPERSION MAP

●Electrical characteristic curves



●Electrical characteristic curves



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