

●Series

Standard Fast Recovery

●Application

General rectification

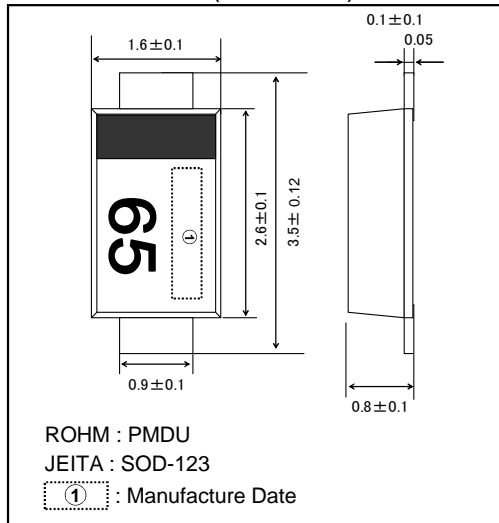
●Features

- 1) Ultra low forward voltage
- 2) Low switching loss

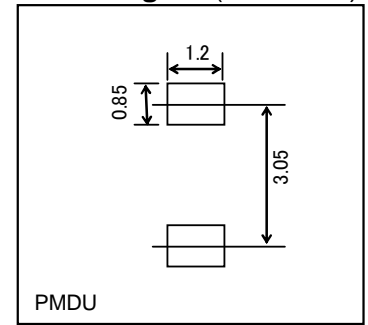
●Construction

Silicon epitaxial planar type

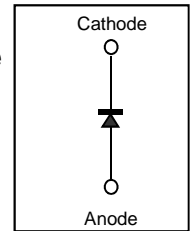
●Dimensions (Unit : mm)



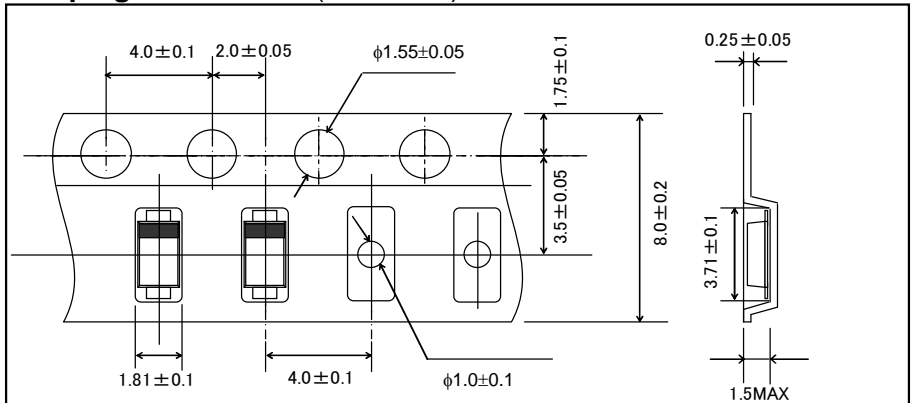
●Land size figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



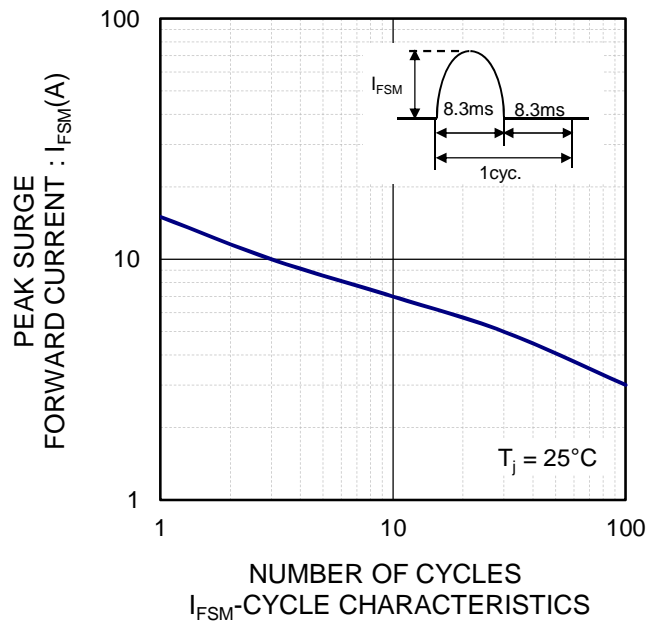
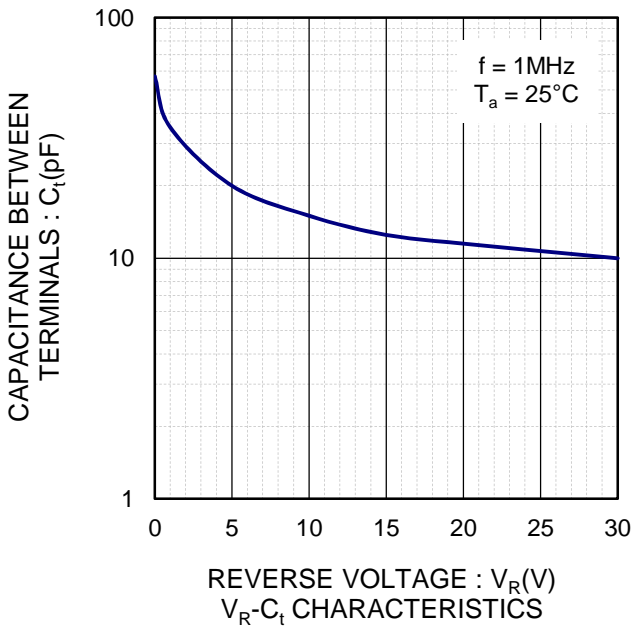
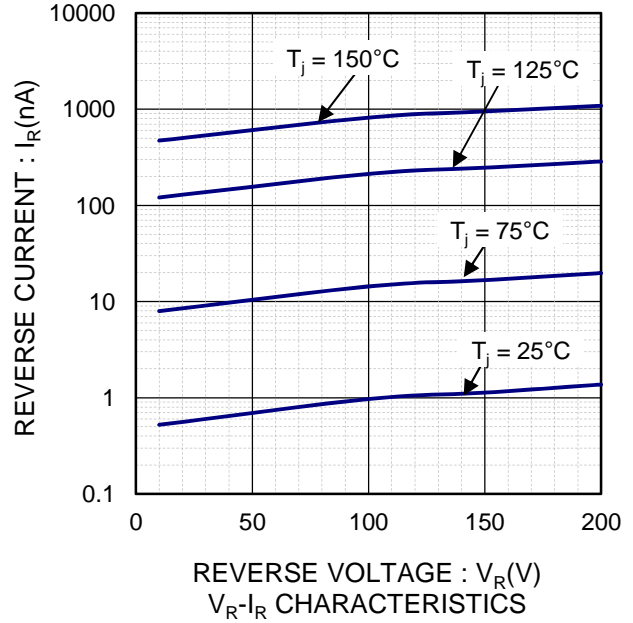
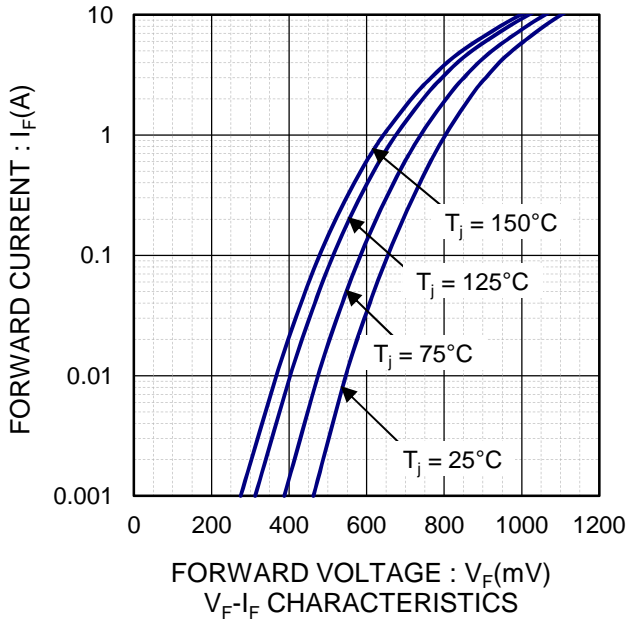
●Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤ 0.5	200	V
Reverse voltage	V_R	Direct reverse voltage	200	V
Direct forward current	I_F	-	1	A
Average rectified forward current	I_o	On glass epoxy substrate 60Hz half sin wave, Resistive load	0.7	A
Non-repetitive forward surge current	I_{FSM}	60Hz half sin wave, Non-repetitive at $T_j = 25^\circ\text{C}$	15	A
Operating junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 to +150	$^\circ\text{C}$

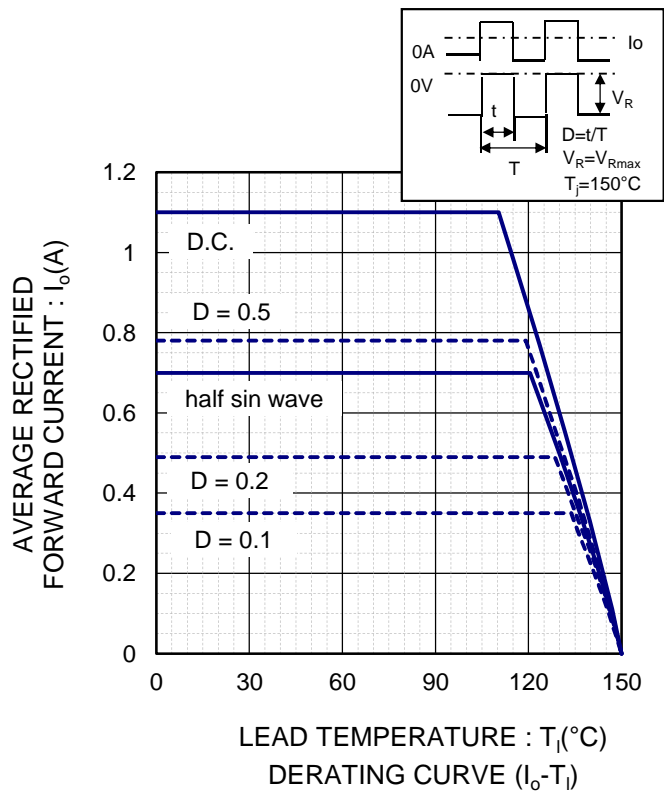
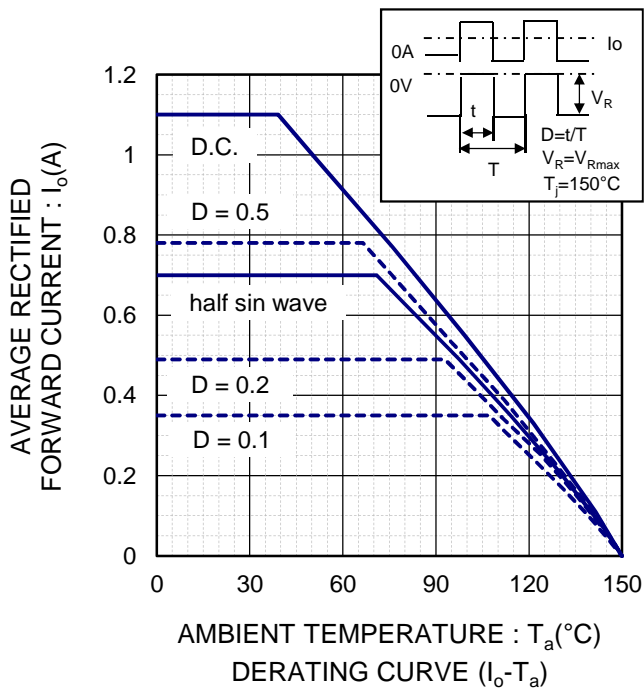
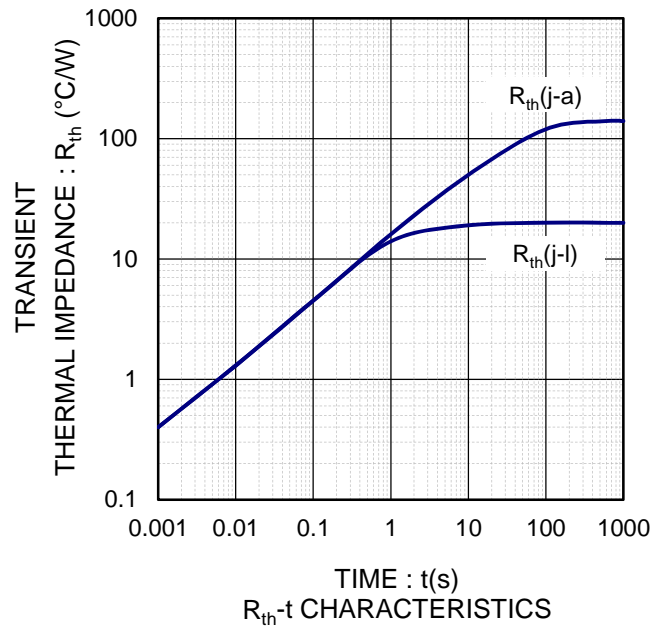
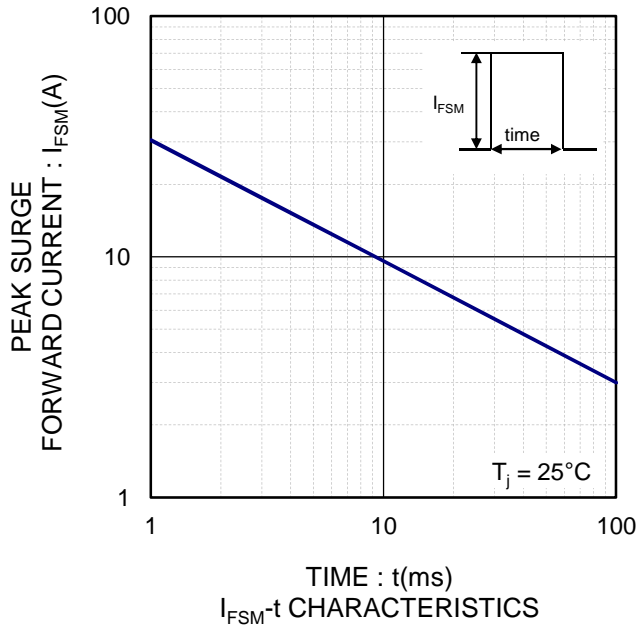
●Electrical characteristics ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F = 0.7\text{A}$	0.7	0.78	0.85	V
Reverse current	I_R	$V_R = 200\text{V}$	-	0.01	10	μA
Reverse recovery time	t_{rr}	$I_F = 0.5\text{A}, I_R = 1\text{A}, I_{rr} = 0.25 \times I_R$	-	12	25	ns
Thermal resistance	$R_{th(j-l)}$	Junction to lead	-	-	20	$^\circ\text{C} / \text{W}$

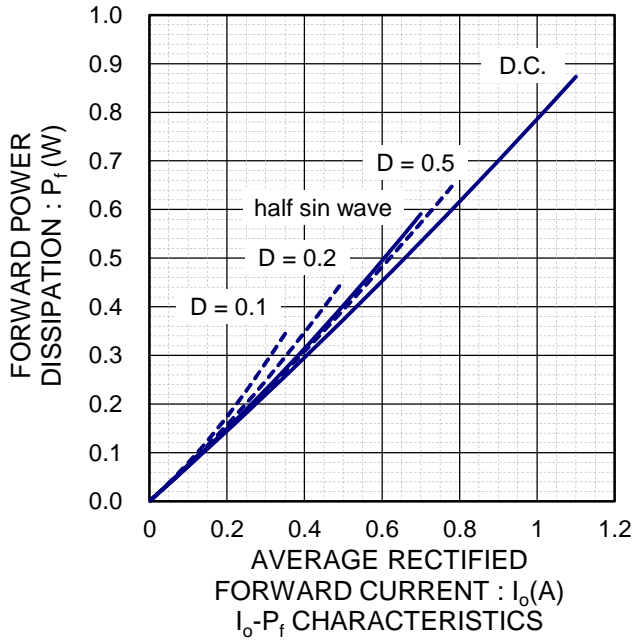
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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