

### ●Serie

Standard Fast Recovery

### ●Application

General rectification

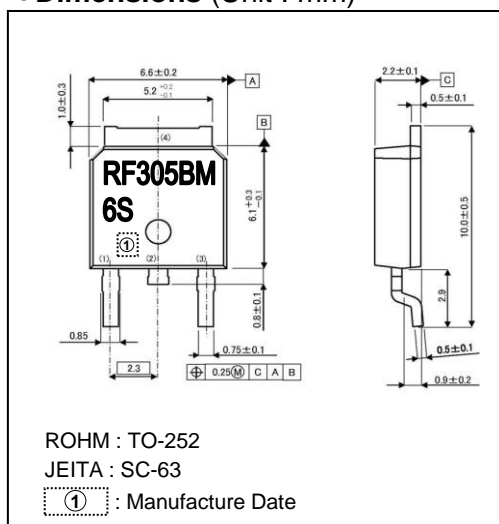
### ●Features

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

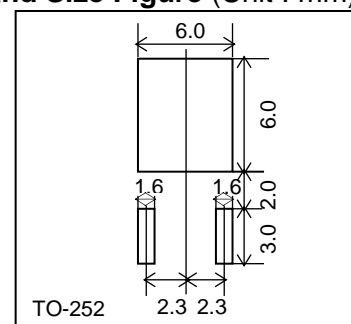
### ●Construction

Silicon epitaxial planar type

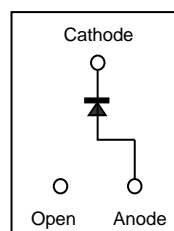
### ●Dimensions (Unit : mm)



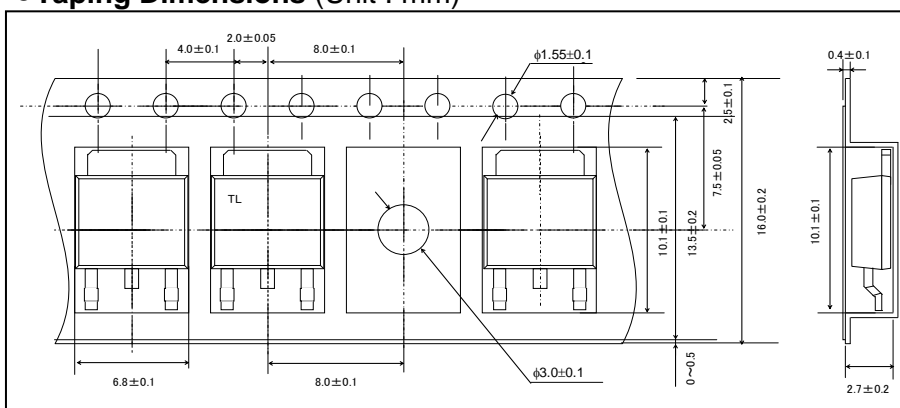
### ●Land Size Figure (Unit : mm)



### ●Structure



### ●Taping Dimensions (Unit : mm)



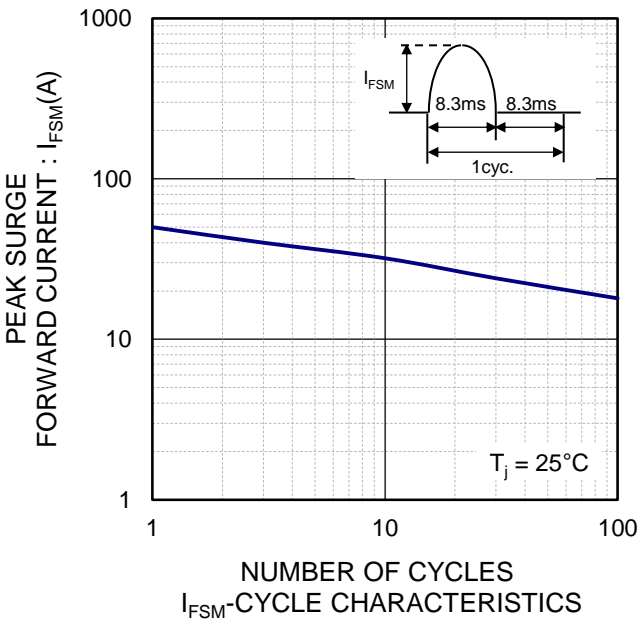
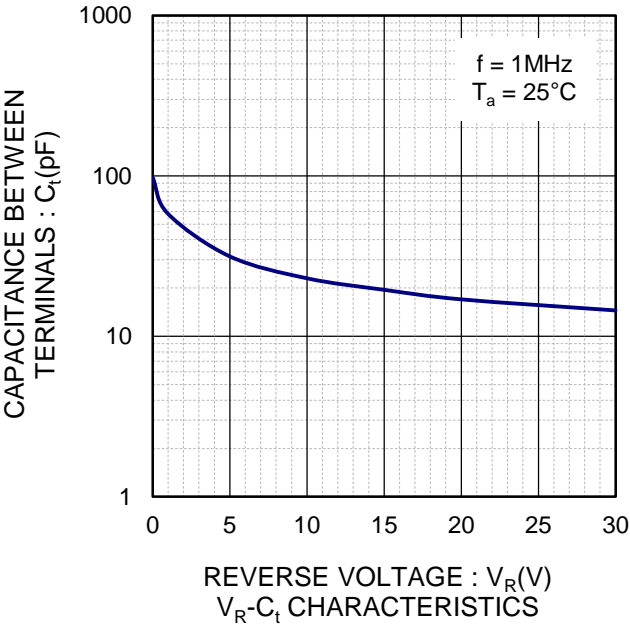
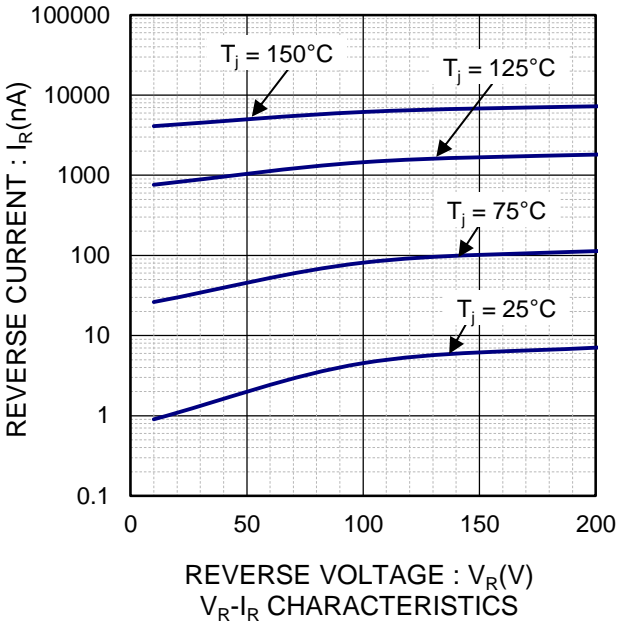
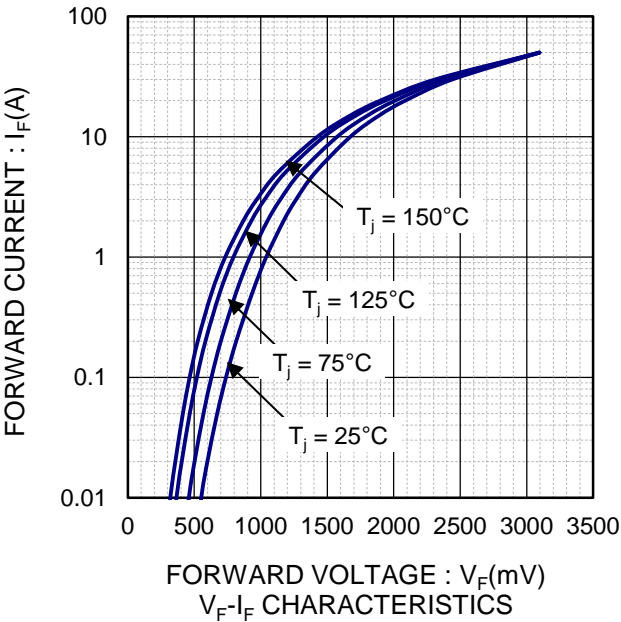
### ●Absolute Maximum Ratings ( $T_c = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty $\leq 0.5$	600	V
Reverse voltage	$V_R$	Direct voltage	600	V
Average rectified forward current	$I_o$	60Hz half sin wave , Resistive load $T_c=115^\circ\text{C}$	3	A
Forward current surge peak	$I_{FSM}$	60Hz half sin wave ,Non-repetitive at $T_j=25^\circ\text{C}$	50	A
Operating junction temperature	$T_j$	-	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-	-55 to +150	$^\circ\text{C}$

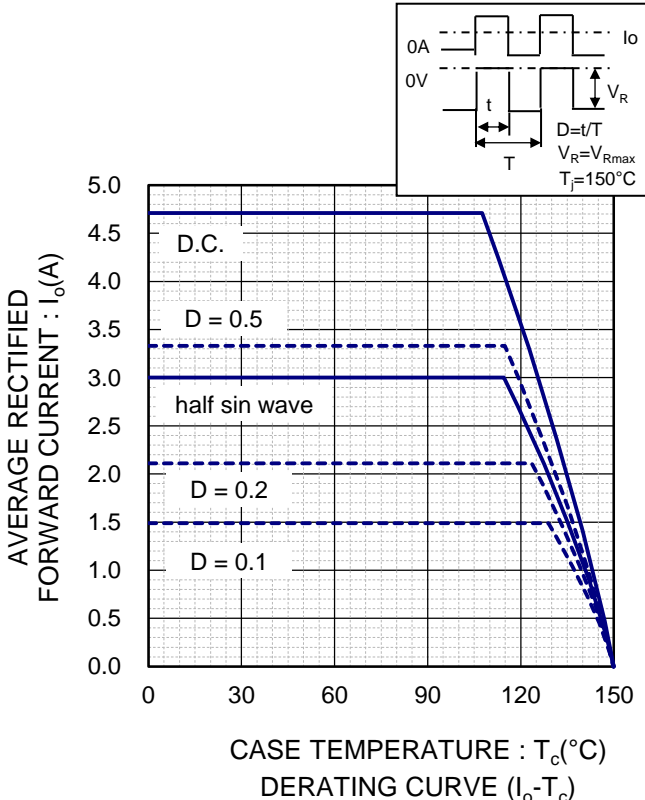
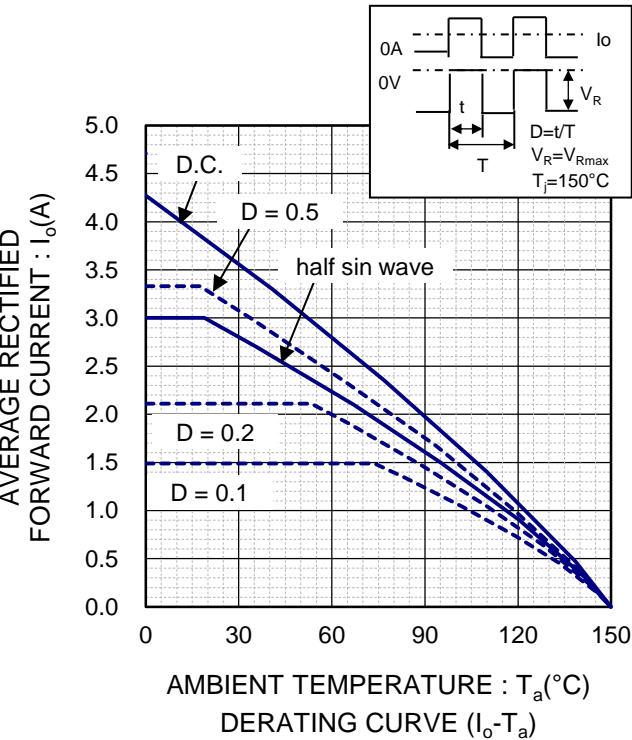
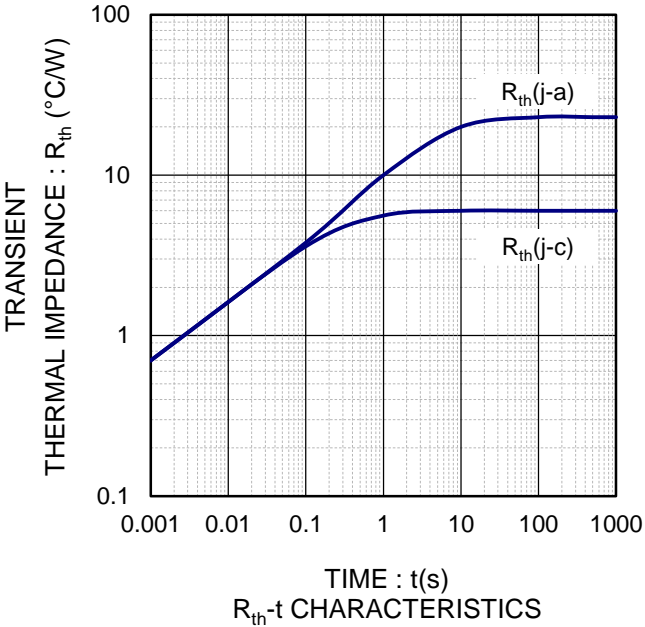
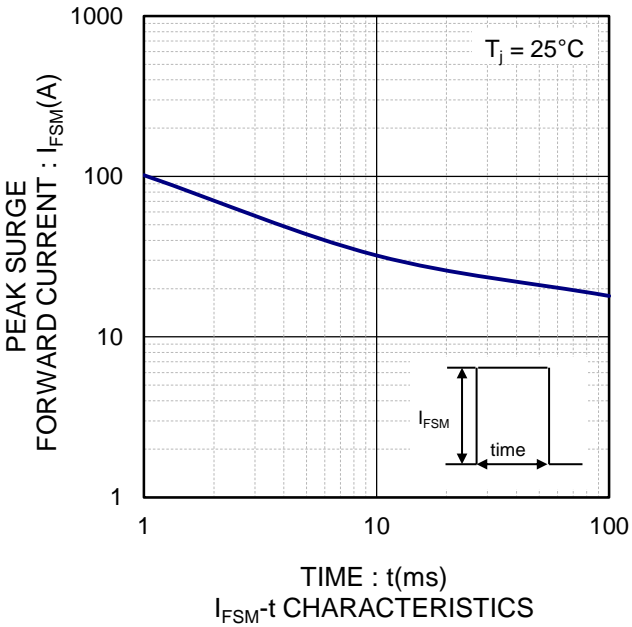
### ●Electrical Characteristics ( $T_j = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=3\text{A}$	-	1.3	1.7	V
Reverse current	$I_R$	$V_R=600\text{V}$	-	0.04	10	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.5\text{A}$ , $I_R=1\text{A}$ , $I_{rr}=0.25 \times I_R$	-	20	30	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	-	-	6.0	$^\circ\text{C} / \text{W}$

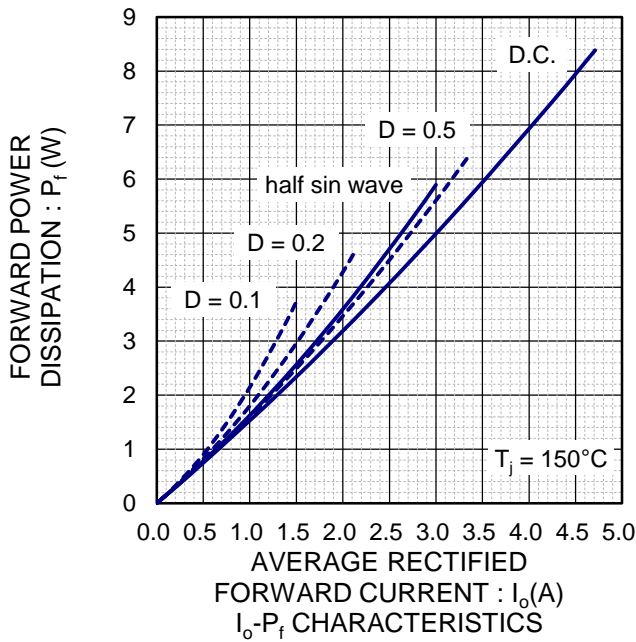
●Electrical Characteristic Curves



●Electrical Characteristic Curves



●Electrical Characteristic Curves



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