

AEC-Q101 Qualified

●Series

Standard Fast Recovery

●Application

General rectification

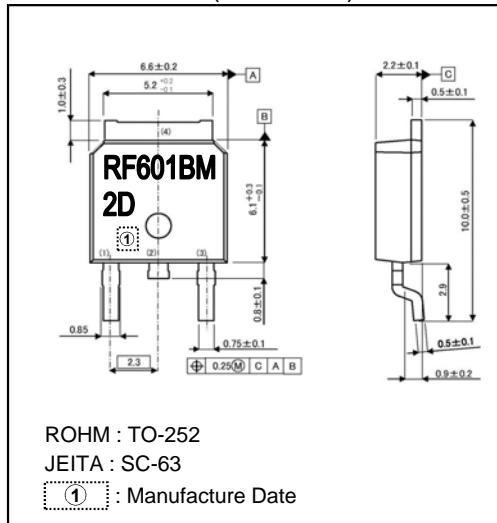
●Features

- 1) Cathode common dual type
- 2) Low switching loss
- 3) Low forward voltage

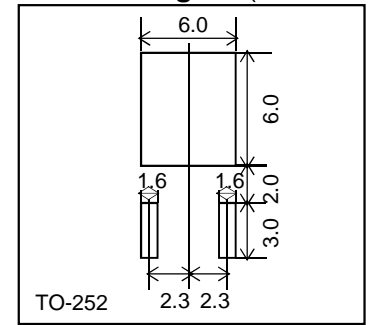
●Construction

Silicon epitaxial planar type

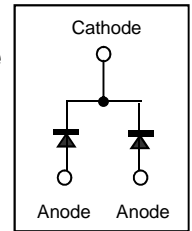
●Dimensions (Unit : mm)



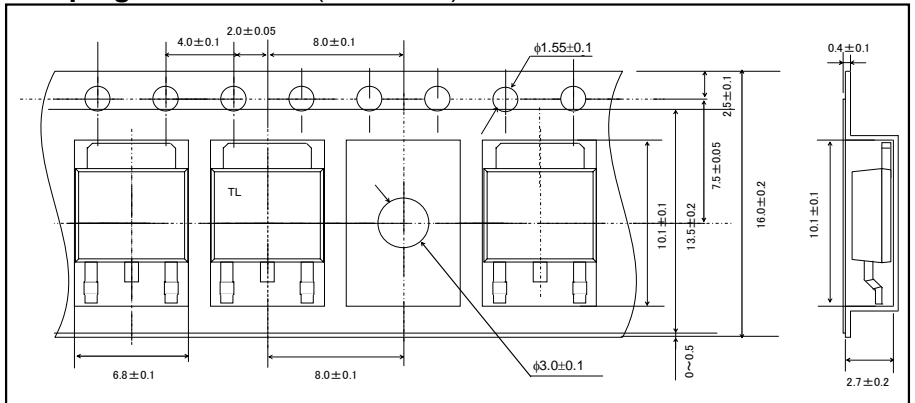
●Land Size Figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



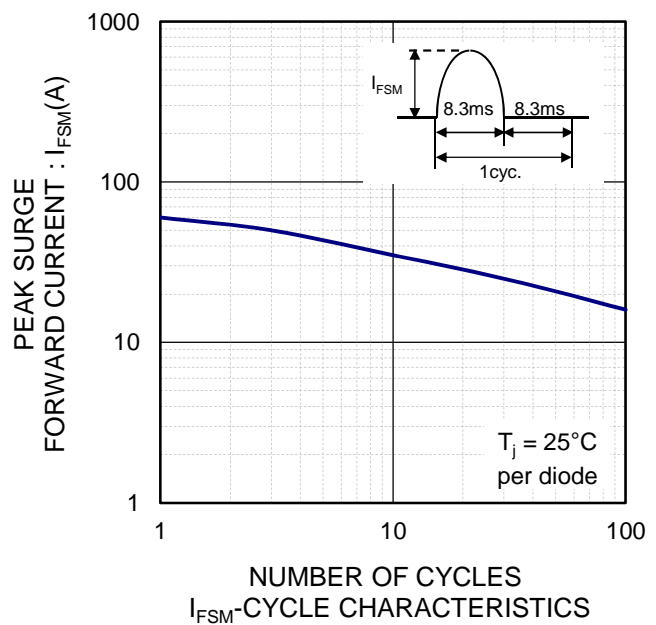
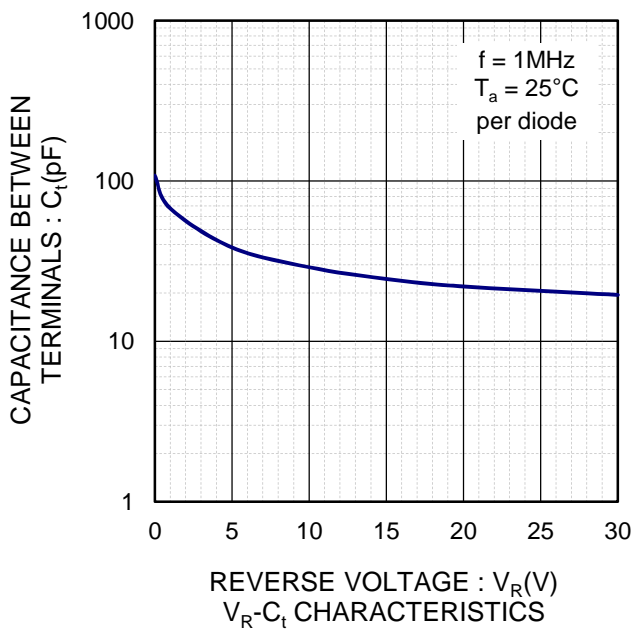
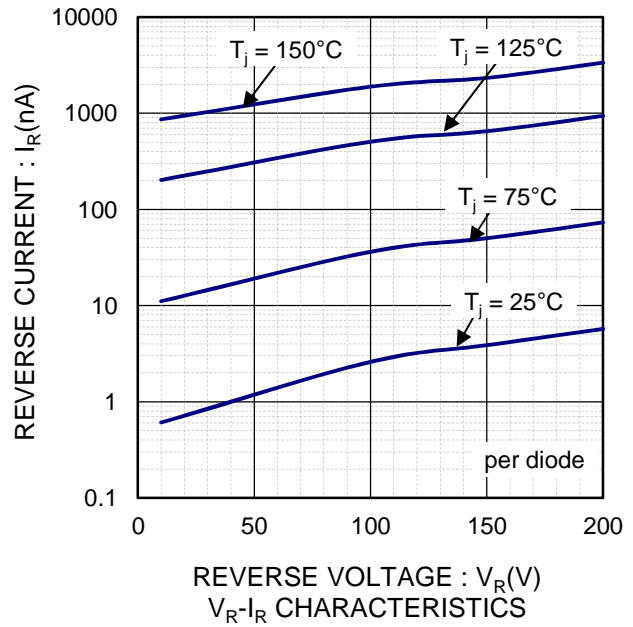
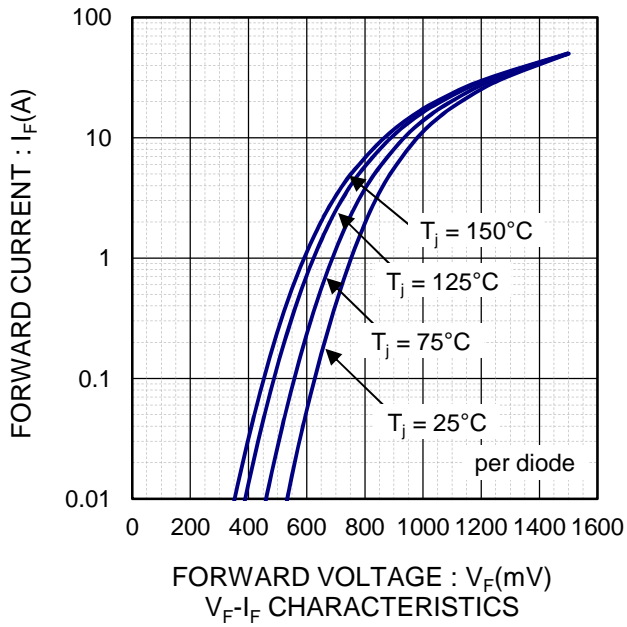
●Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤ 0.5	200	V
Reverse voltage	V_R	Direct voltage	200	V
Average rectified forward current	I_o	60Hz half sin wave, Resistive load 1/2 I_o per diode	$T_c = 109^\circ\text{C}$ 6	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive at $T_j = 25^\circ\text{C}$, per diode	60	A
Operating junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 to +150	$^\circ\text{C}$

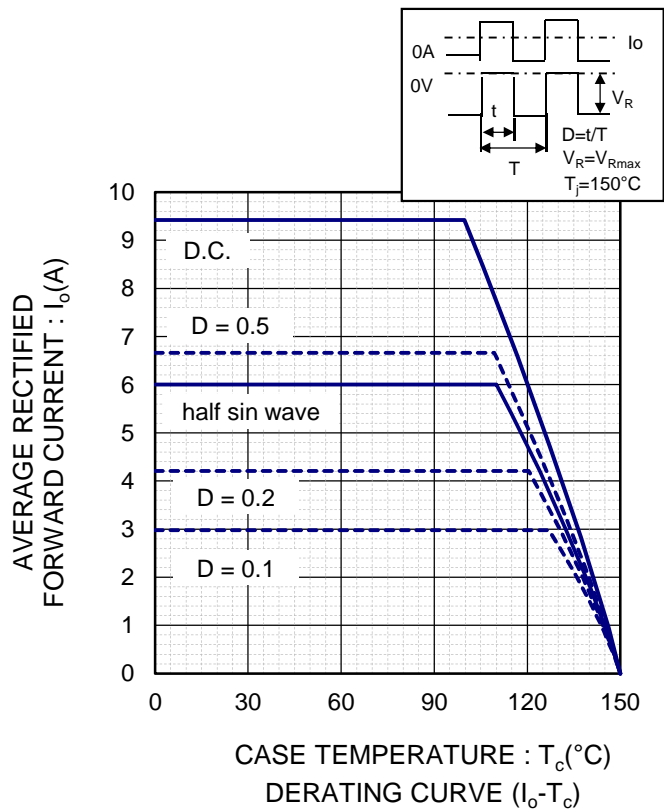
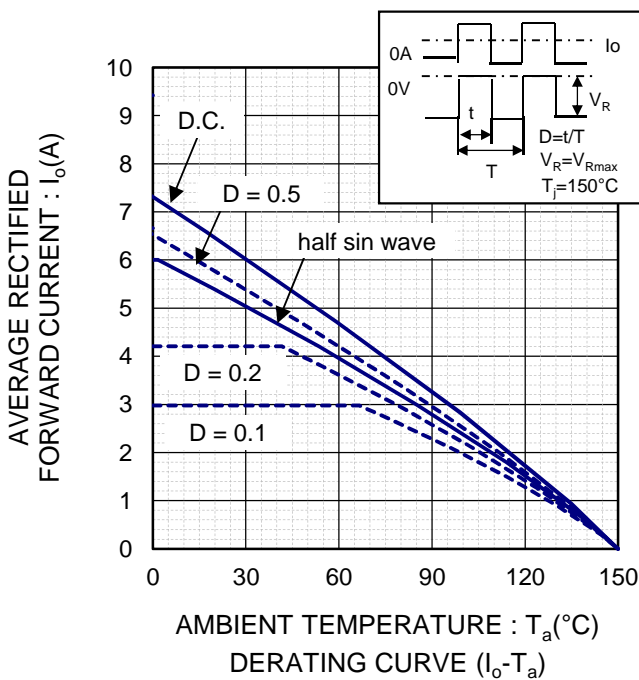
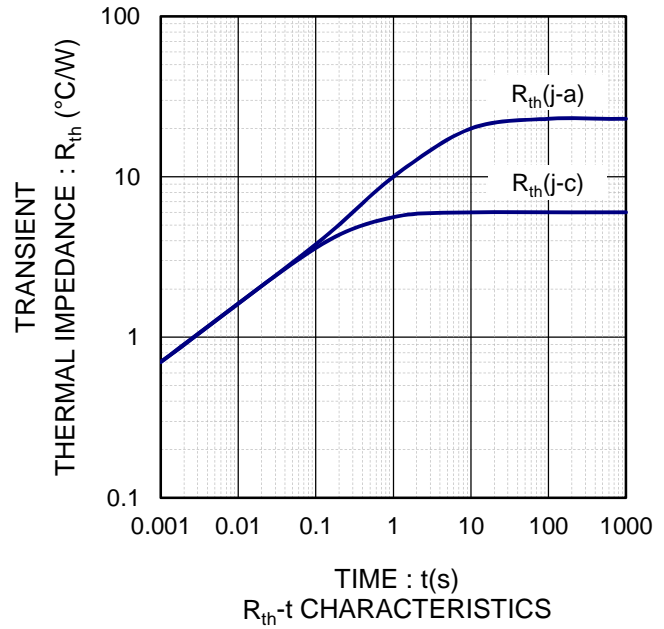
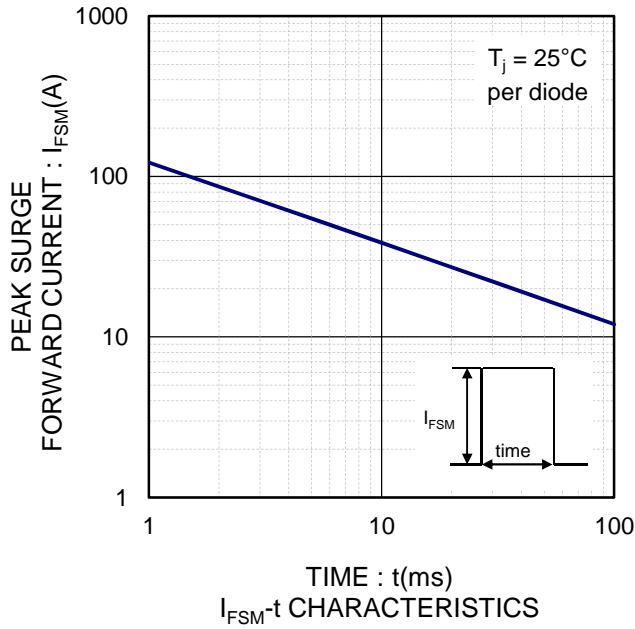
●Electrical Characteristics ($T_j = 25^\circ\text{C}$, per diode)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F = 3\text{A}$	-	0.87	0.93	V
Reverse current	I_R	$V_R = 200\text{V}$	-	0.05	10	μA
Reverse recovery time	t_{rr}	$I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25 \times I_R$	-	14	25	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	-	-	6.0	$^\circ\text{C} / \text{W}$

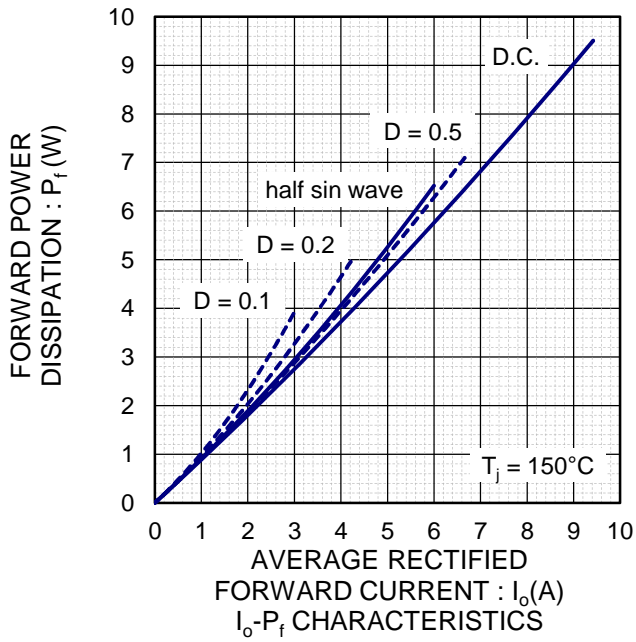
●Electrical Characteristic Curves



●Electrical Characteristic Curves



●Electrical Characteristic Curves



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