

AEC-Q101 Qualified

●Application

General rectification

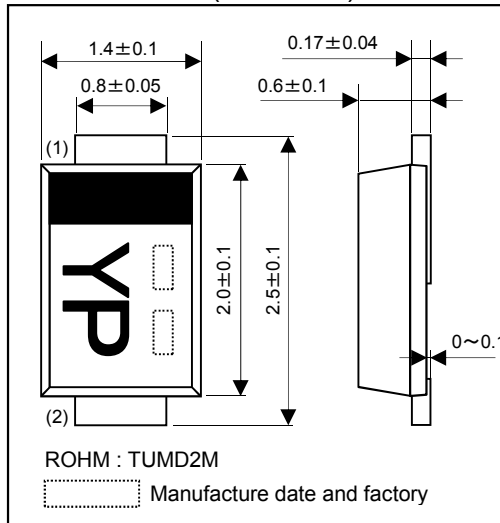
●Features

- 1) Small mold type (TUMD2M)
- 2) High reliability
- 3) Low V_F and low I_R

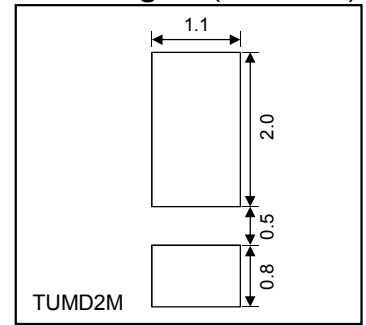
●Construction

Silicon epitaxial planar type

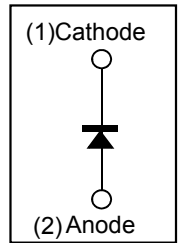
●Dimensions (Unit : mm)



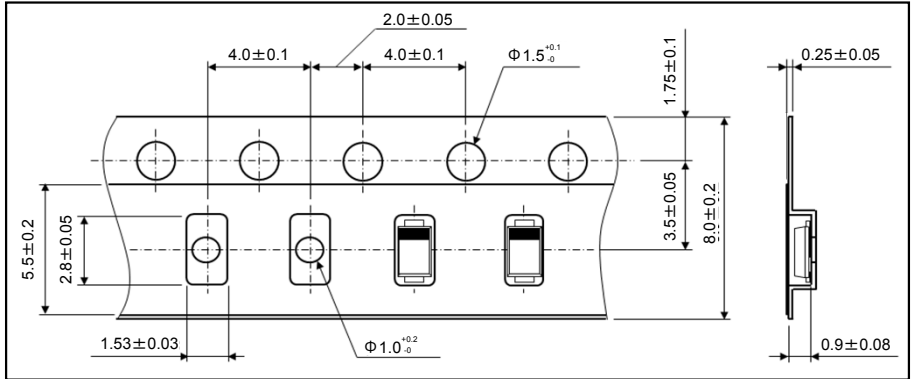
●Land Size Figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



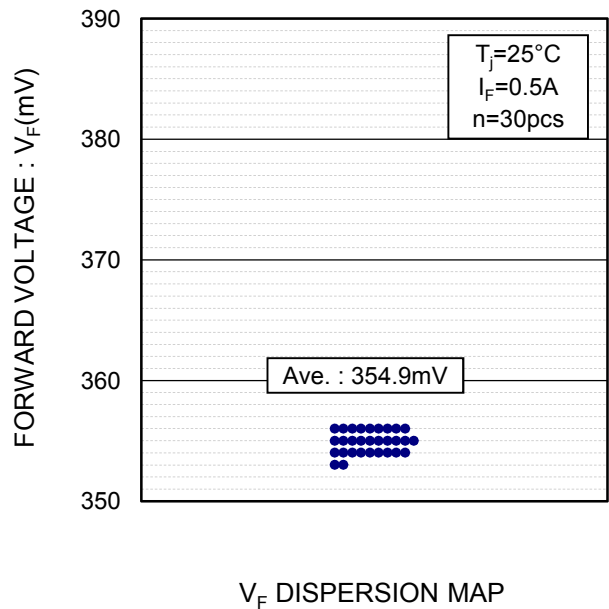
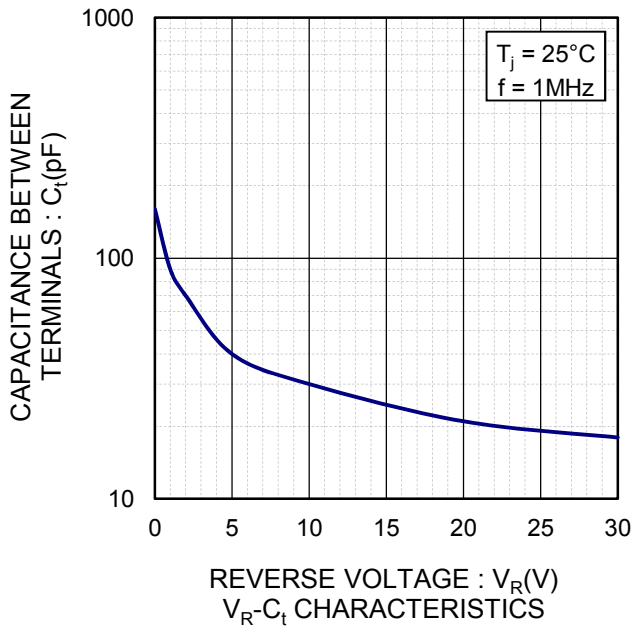
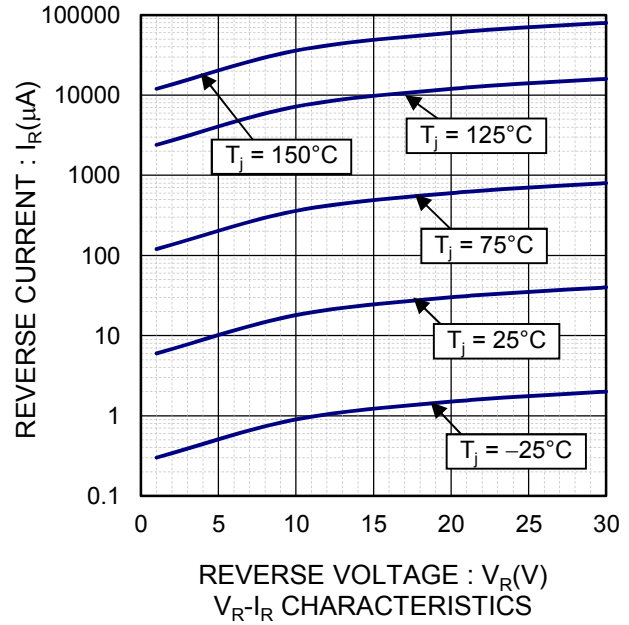
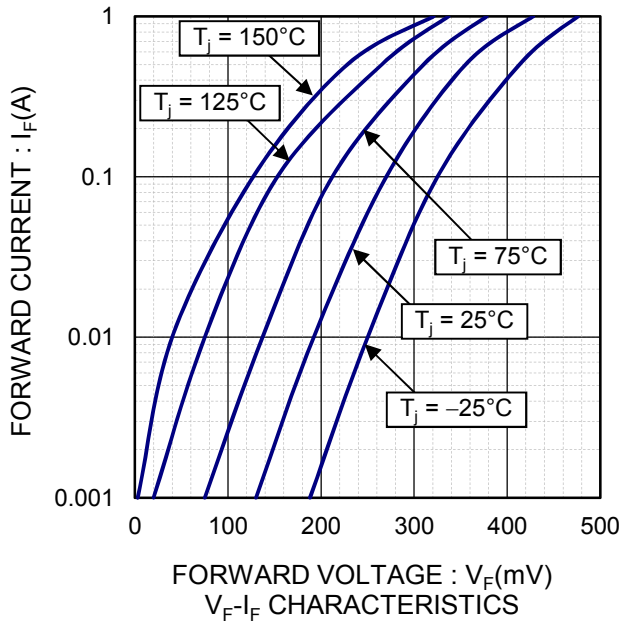
●Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive Peak Reverse Voltage	V_{RM}	Duty ≤ 0.5	30	V
Reverse Voltage	V_R	Direct Reverse Voltage	30	V
Average Forward Rectified Current	I_o	Glass epoxy mounted, 60Hz half sin Wave, resistive load, $T_c = 130^\circ\text{C}$ Max.	0.5	A
Non-repetitive Forward Current Surge Peak	I_{FSM}	60Hz half sin wave, Non-repetitive at $T_a = 25^\circ\text{C}$, 1cycle	5	A
Operating Junction Temperature	T_j	-	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-	-40 to +150	$^\circ\text{C}$

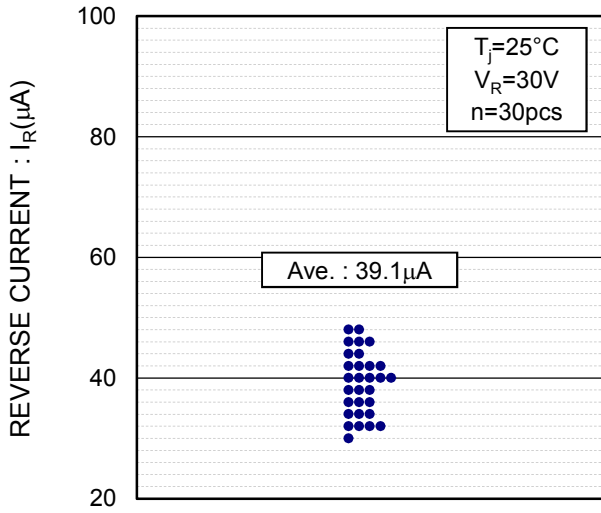
●Electrical Characteristics ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 0.5\text{A}$	-	0.35	0.39	V
Reverse Current	I_R	$V_R = 30\text{V}$	-	40	200	μA

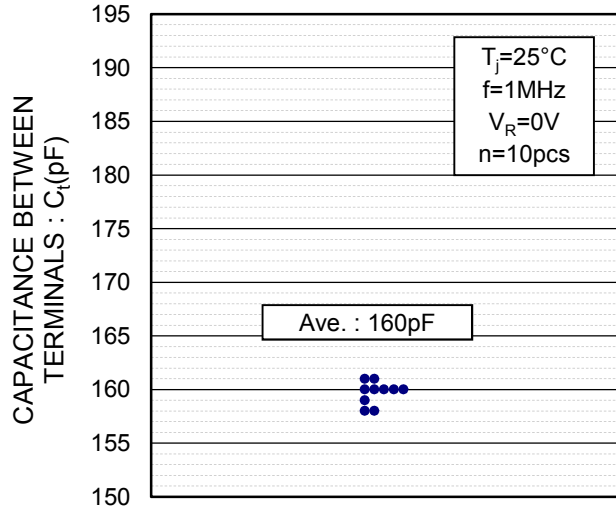
●Electrical Characteristic Curves



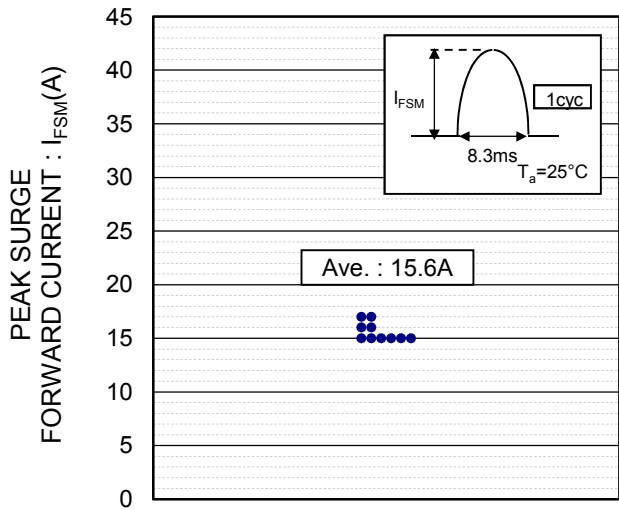
●Electrical Characteristic Curves



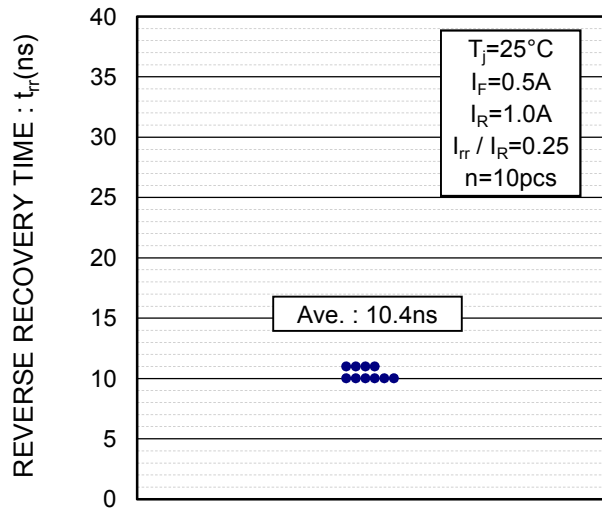
I_R DISPERSION MAP



C_t DISPERSION MAP

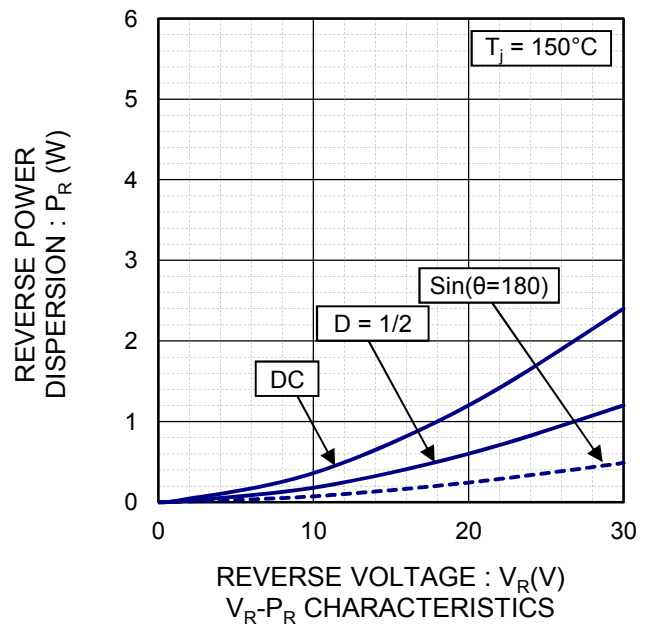
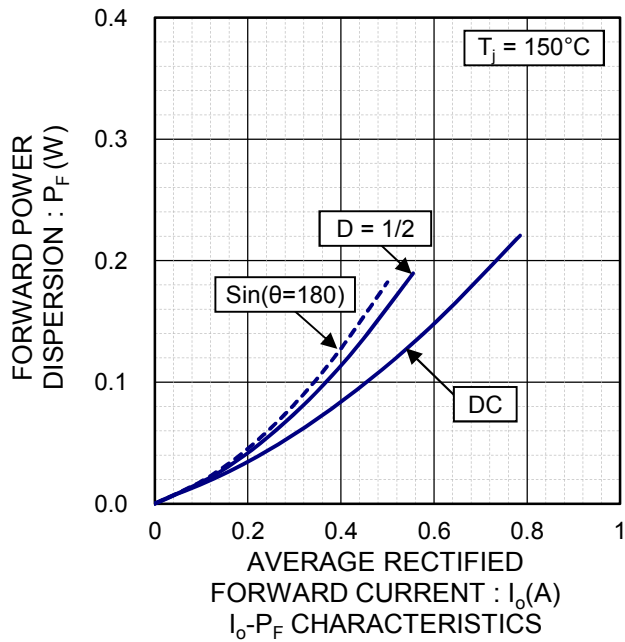
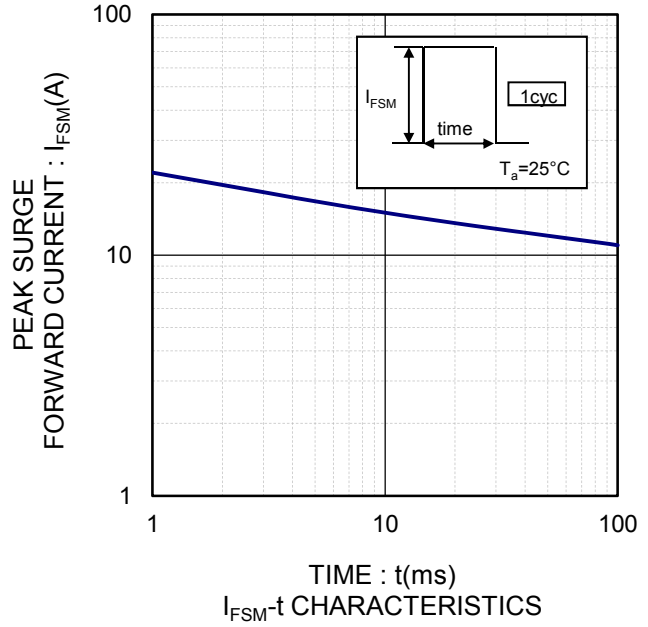
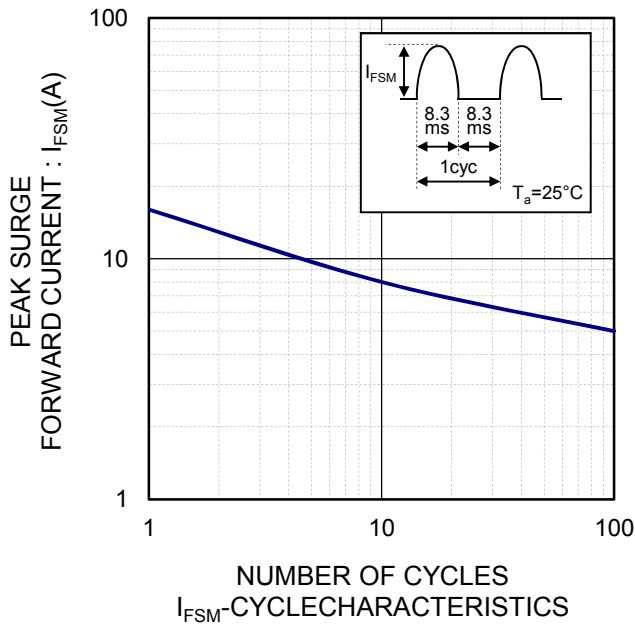


I_{FSM} DISPERSION MAP

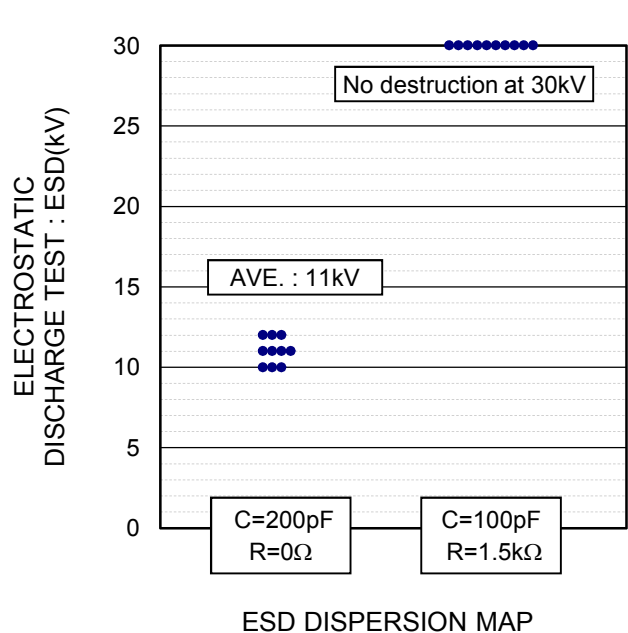
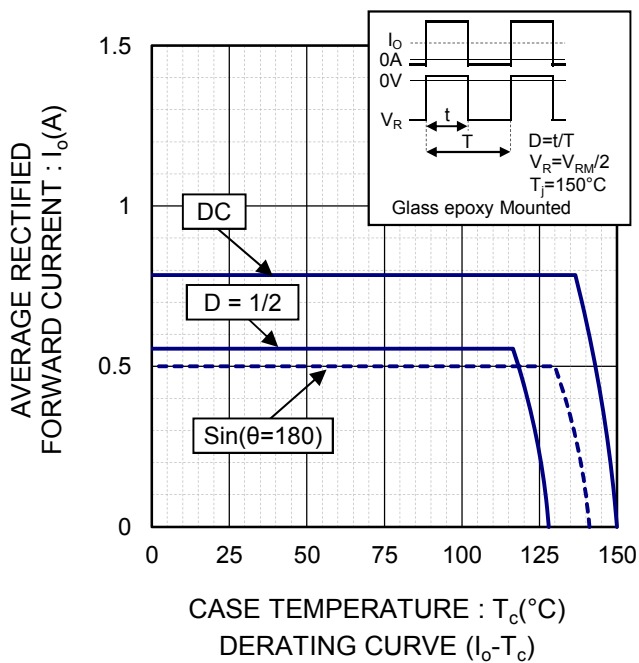
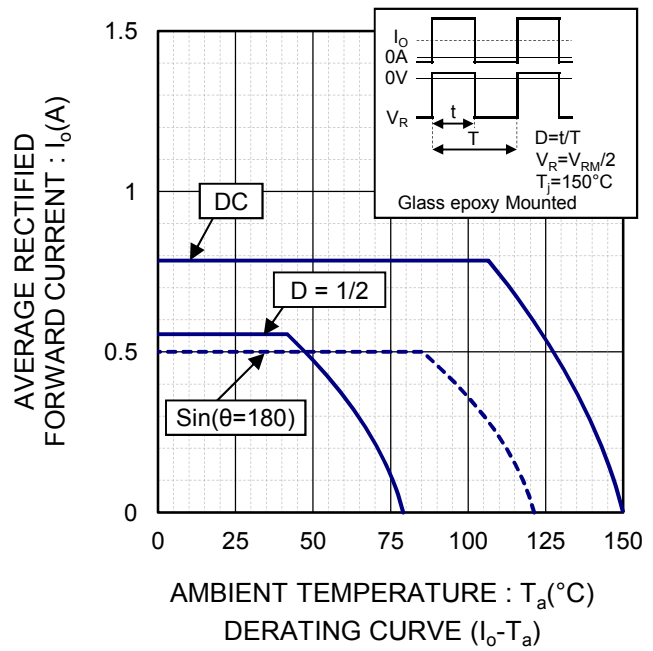
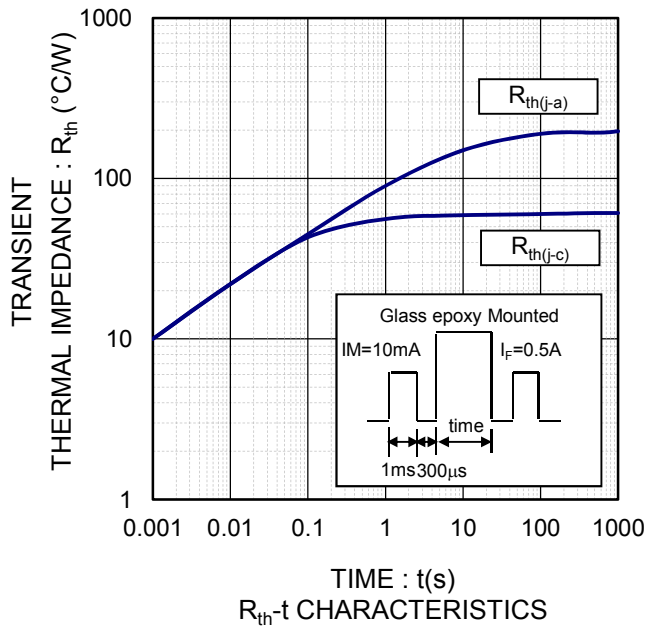


t_{tr} DISPERSION MAP

●Electrical Characteristic Curves



●Electrical Characteristic Curves



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