

●Application

Switching power supply

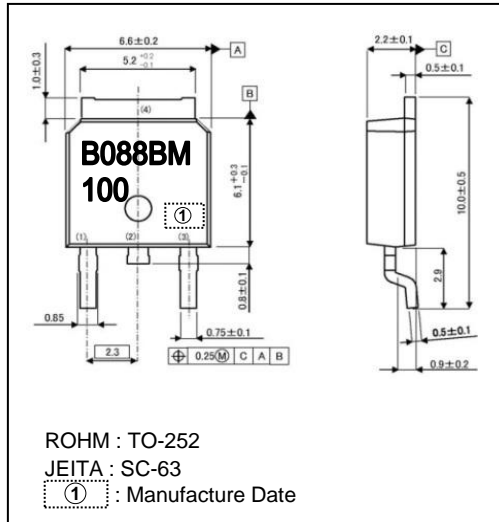
●Features

- 1) Power mold type (TO-252)
- 2) Cathode common dual type
- 3) High reliability
- 4) Super low I_R

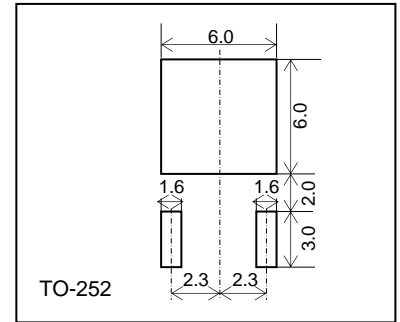
●Construction

Silicon epitaxial planar type

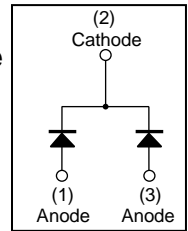
●Dimensions (Unit : mm)



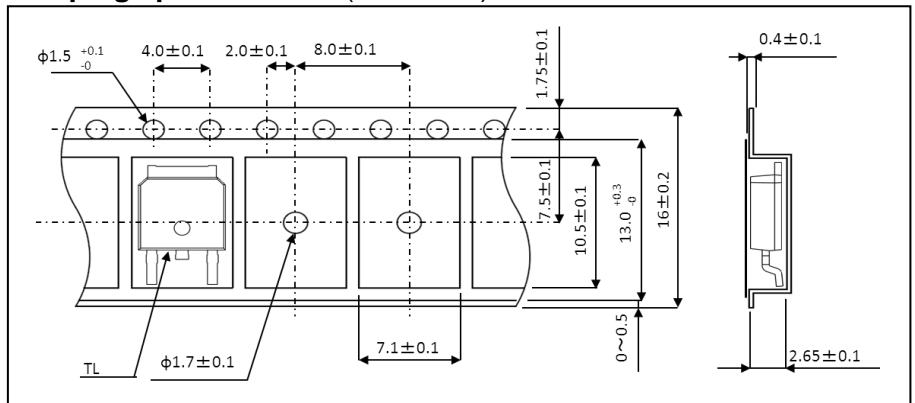
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



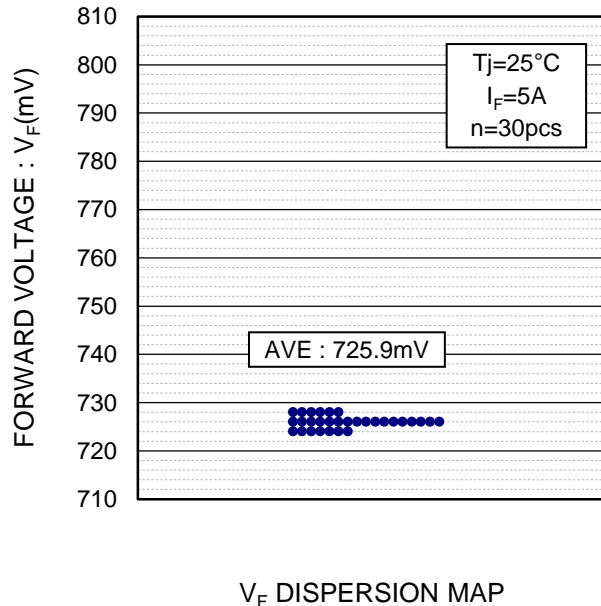
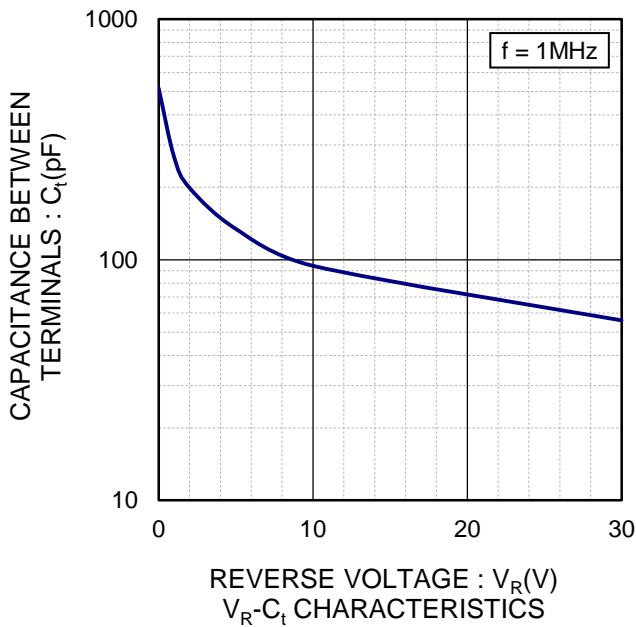
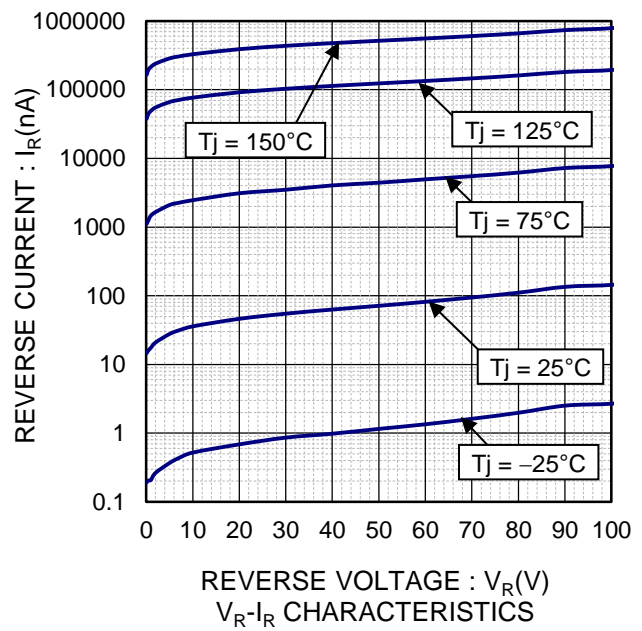
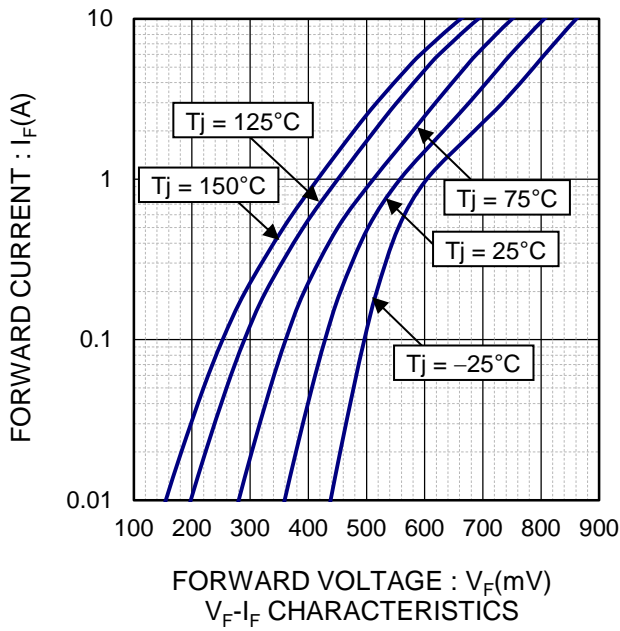
●Absolute maximum ratings ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit	Conditions
Repetitive Peak Reverse Voltage	V_{RM}	100	V	Duty ≤ 0.5
Reverse Voltage	V_R	100	V	Direct Reverse Voltage
Average forward rectified current	I_o	10	A	60Hz half sin Wave resistive load, $T_c=103^\circ\text{C}$ max., 1/2 I_o per diode
Non-repetitive Forward Current Surge Peak	I_{FSM}	50	A	60Hz half sin wave, Non-repetitive at $T_a=25^\circ\text{C}$, per diode
Operating Junction Temperature	T_j	150	$^\circ\text{C}$	-
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	-

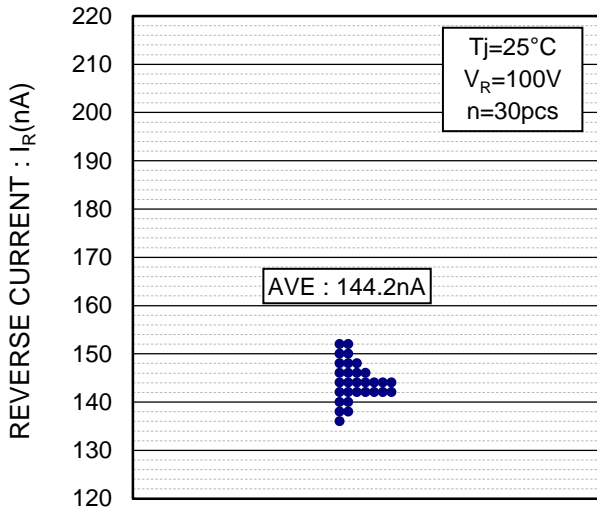
●Electrical characteristics ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.74	0.87	V	$I_F=5.0\text{A}$
Reverse current	I_R	-	0.15	5	μA	$V_R=100\text{V}$

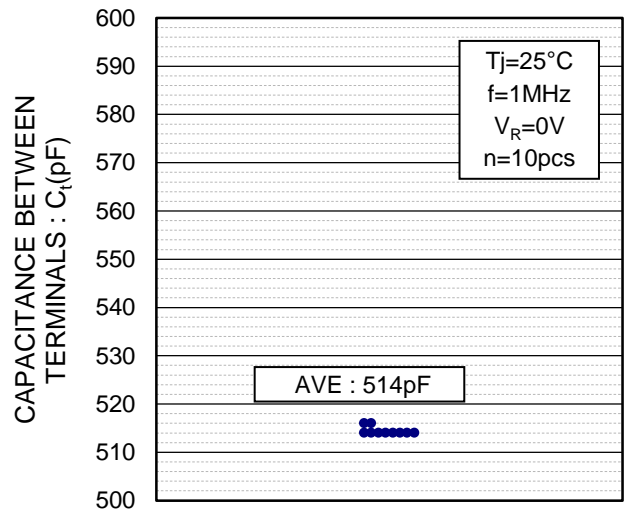
●Electrical characteristic curves



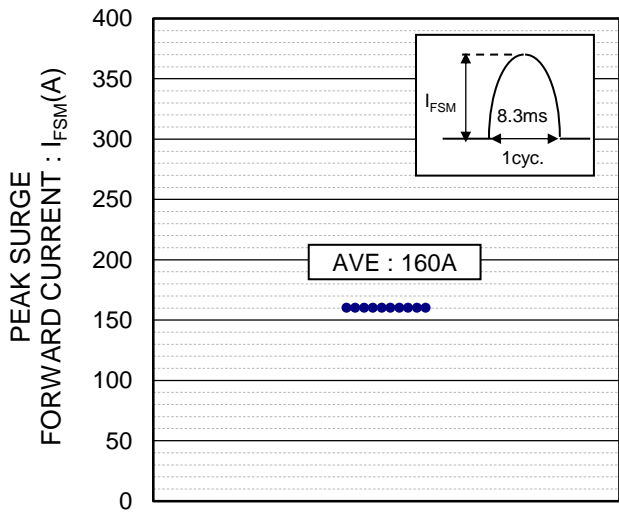
●Electrical characteristic curves



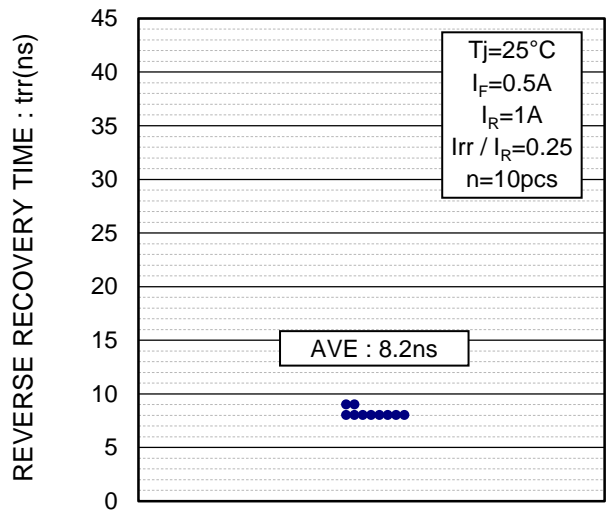
I_R DISPERSION MAP



C_t DISPERSION MAP

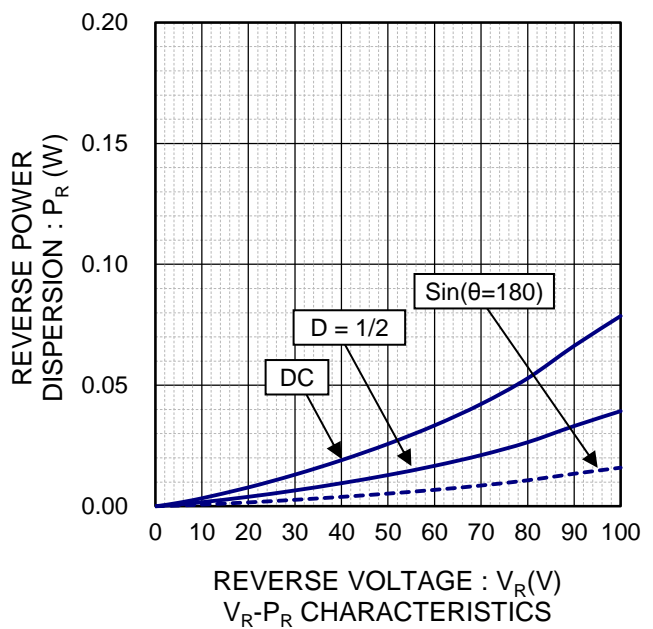
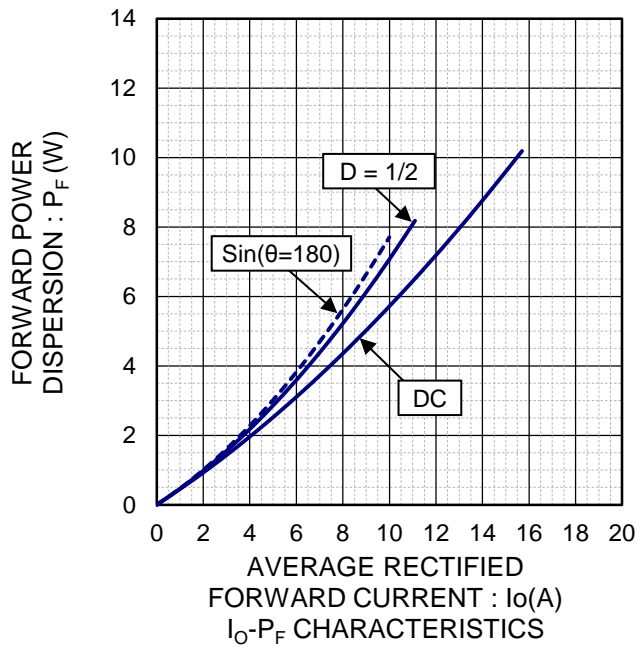
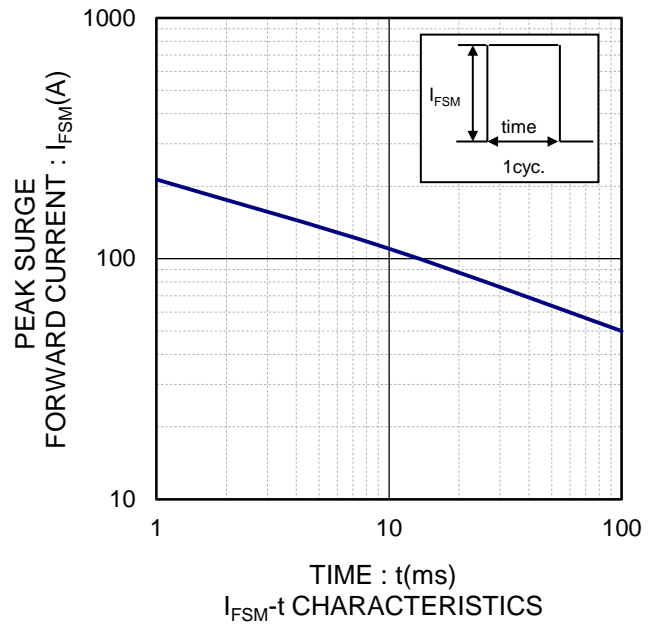
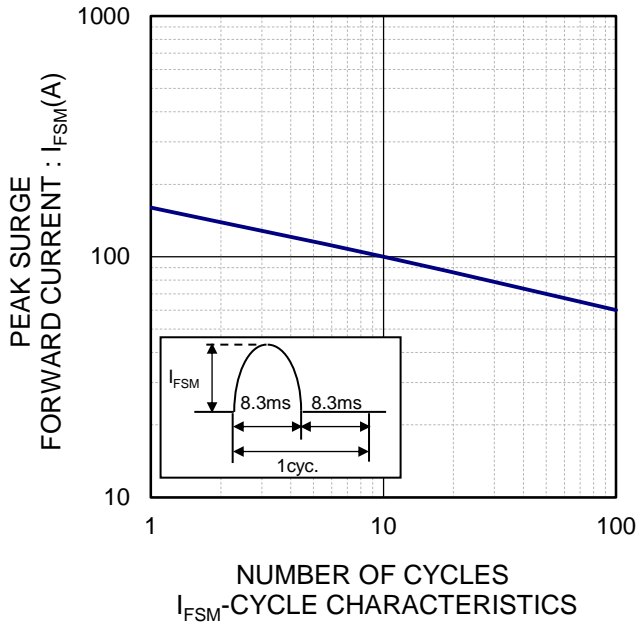


I_{FSM} DISPERSION MAP

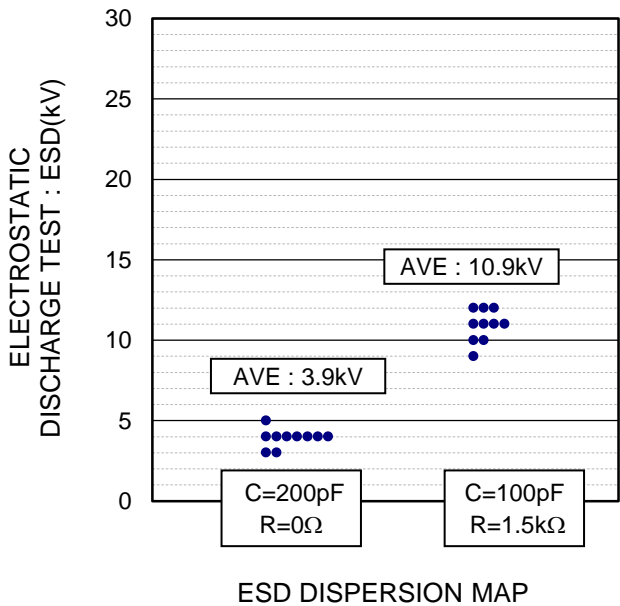
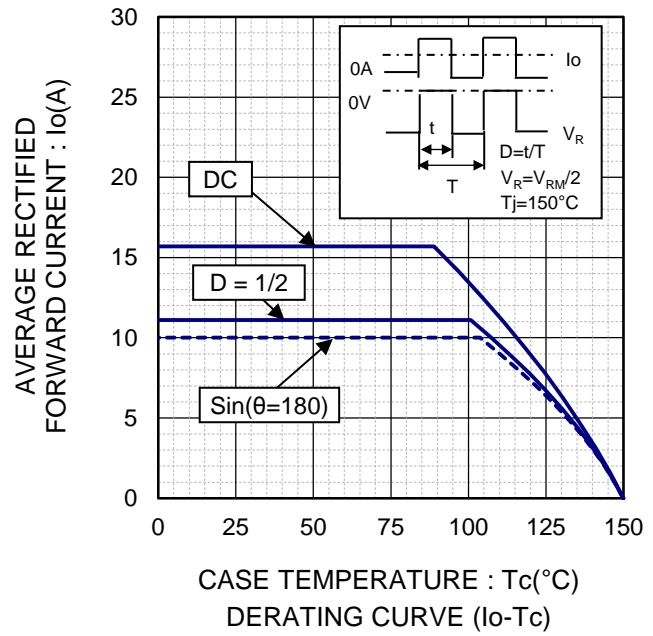
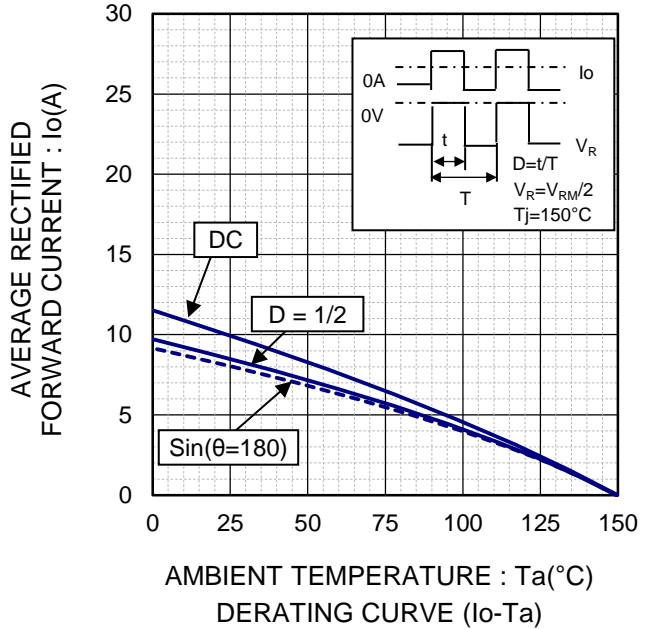
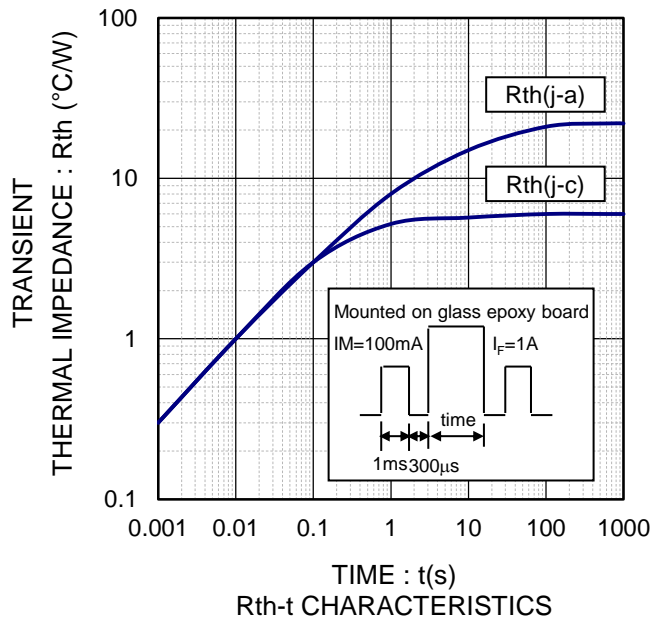


t_{rr} DISPERSION MAP

●Electrical characteristic curves



●Electrical characteristic curves



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