

### ●Application

General Rectification

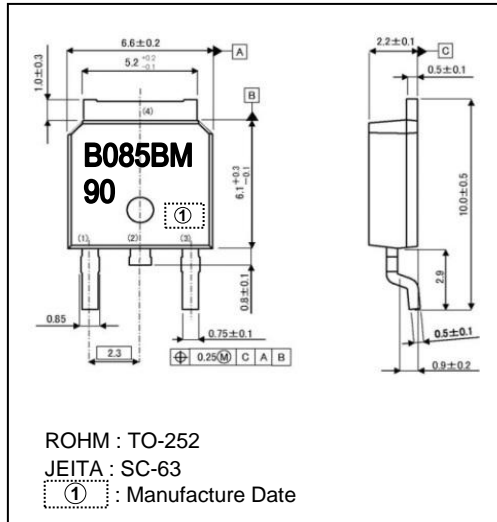
### ●Features

- 1) Power mold type (TO-252)
- 2) Cathode common dual type
- 3) High reliability
- 4) Low  $V_F$

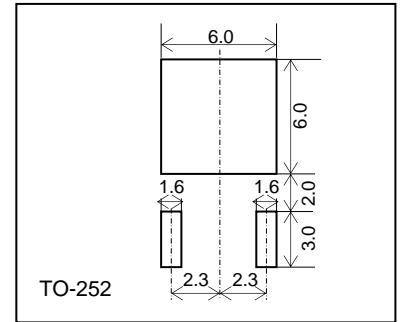
### ●Construction

Silicon epitaxial planar type

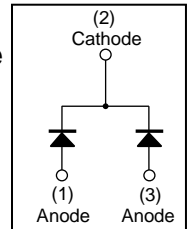
### ●Dimensions (Unit : mm)



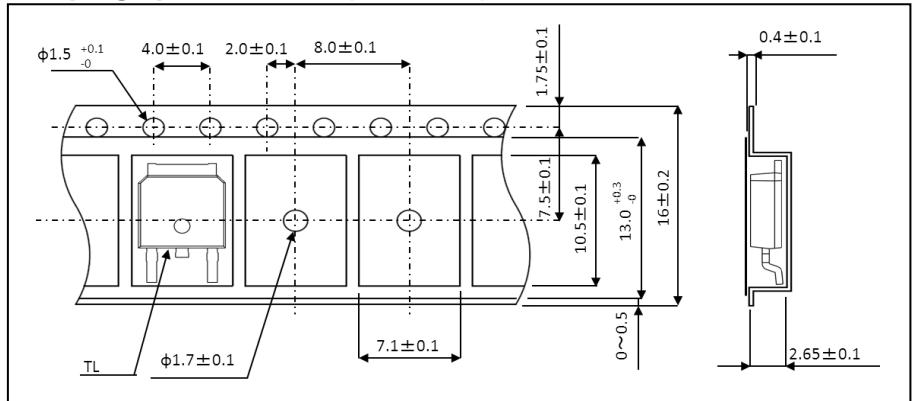
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



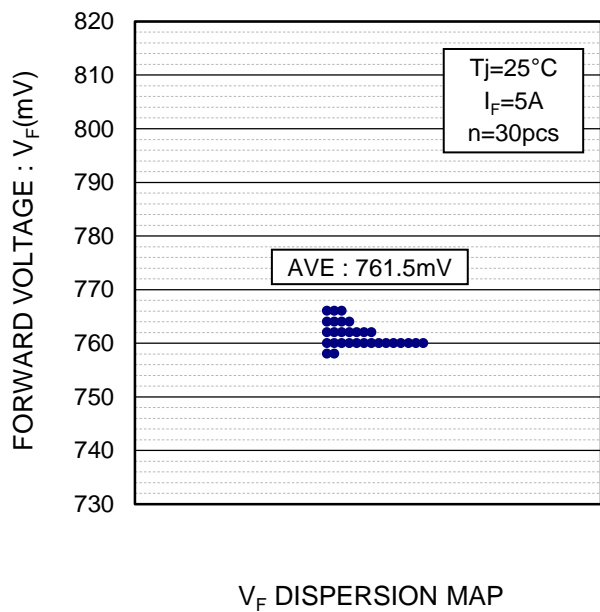
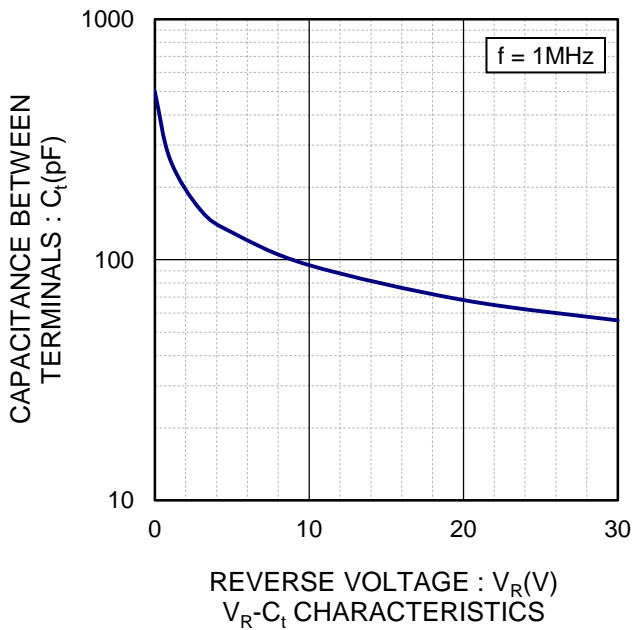
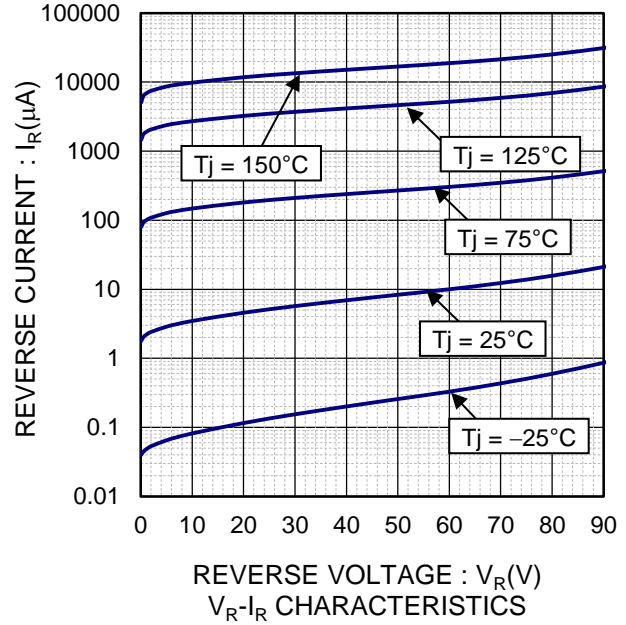
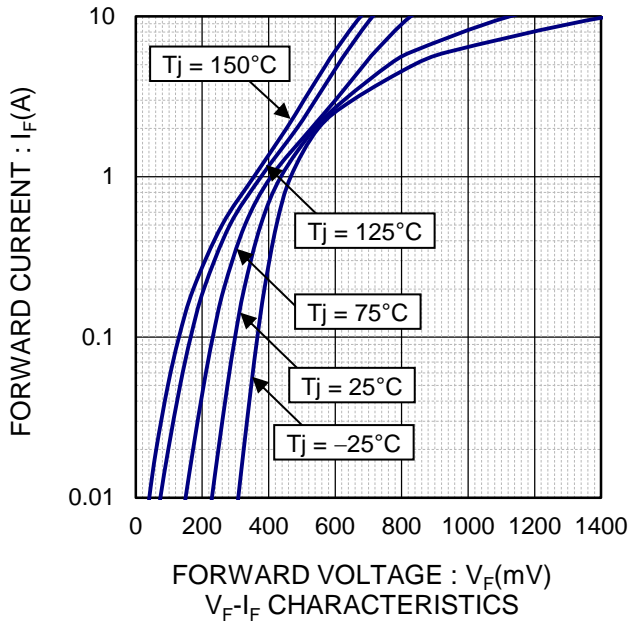
### ●Absolute maximum ratings ( $T_c=25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit	Conditions
Repetitive Peak Reverse Voltage	$V_{RM}$	90	V	Duty $\leq 0.5$
Reverse Voltage	$V_R$	90	V	Direct Reverse Voltage
Average forward rectified current	$I_o$	10	A	60Hz half sin Wave resistive load, $T_c=98^\circ\text{C}$ 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	$T_{stg}$	-40 to +150	$^\circ\text{C}$	-

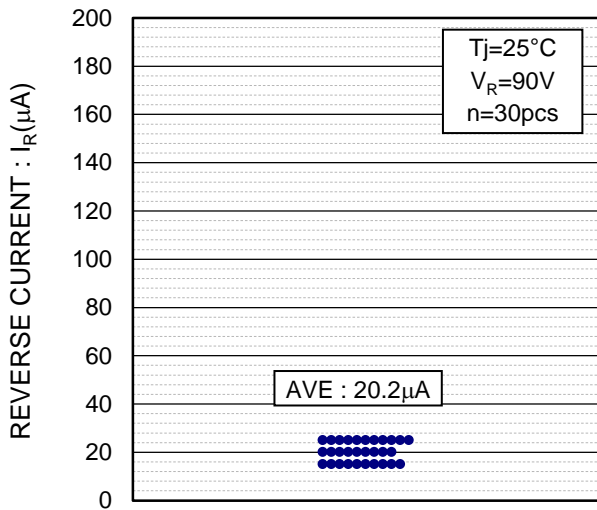
### ●Electrical characteristics ( $T_j = 25^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.83	V	$I_F=5.0\text{A}$
Reverse current	$I_R$	-	-	0.15	mA	$V_R=90\text{V}$
Thermal Resistance	$R_{th(j-c)}$	-	-	6.0	$^\circ\text{C} / \text{W}$	Junction to Case

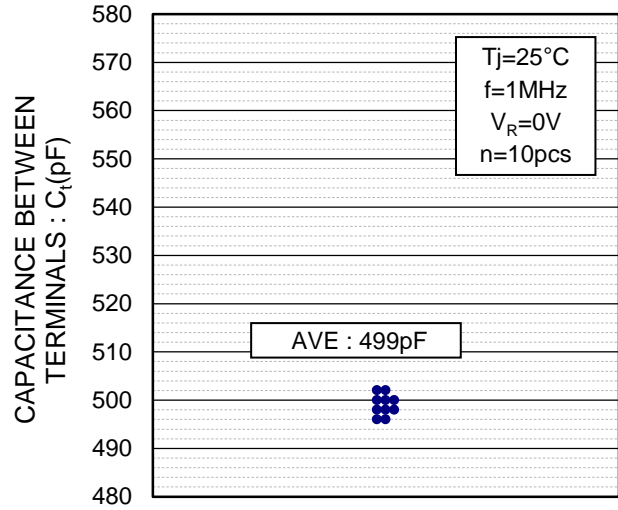
●Electrical characteristic curves



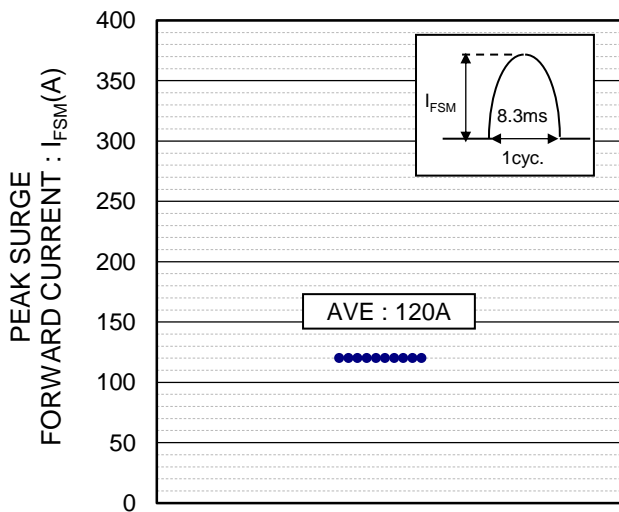
●Electrical characteristic curves



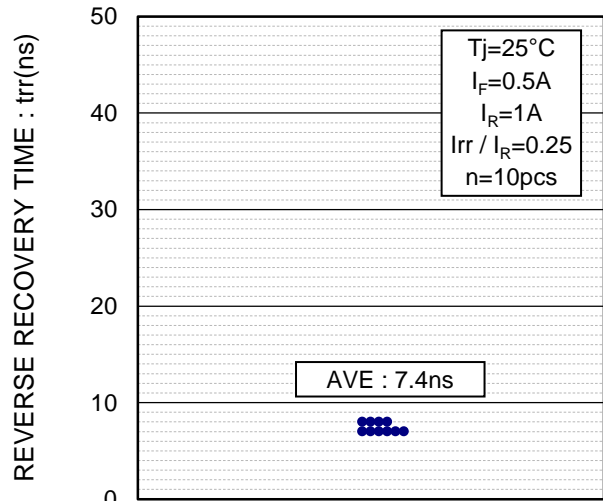
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP

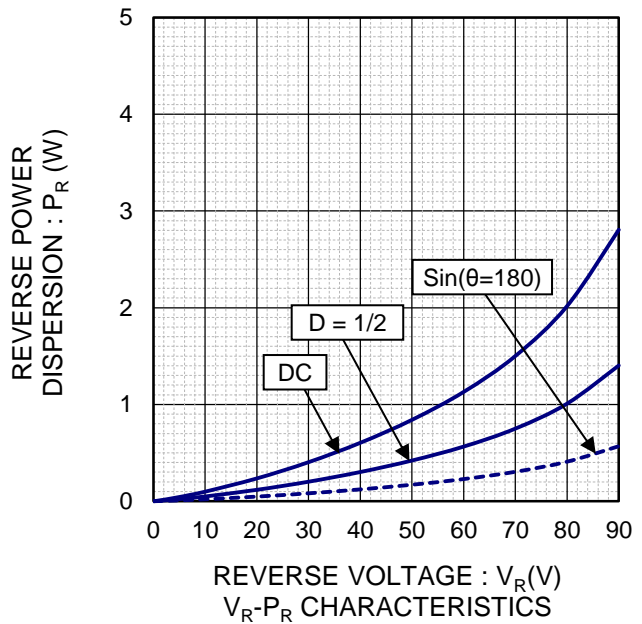
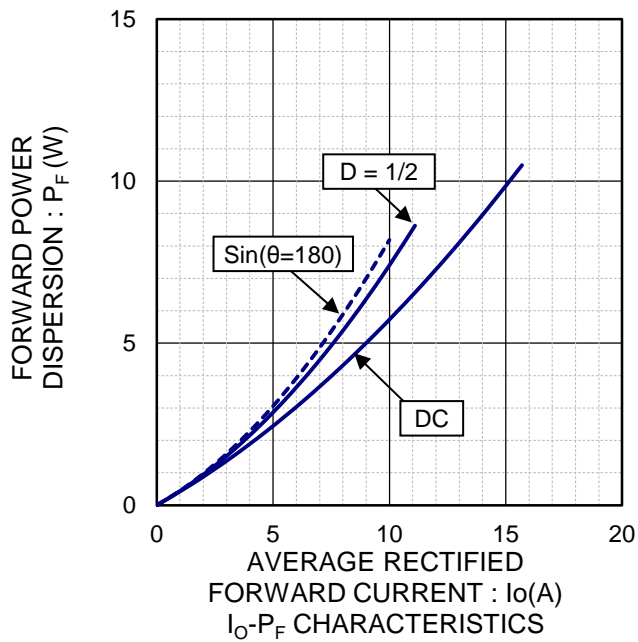
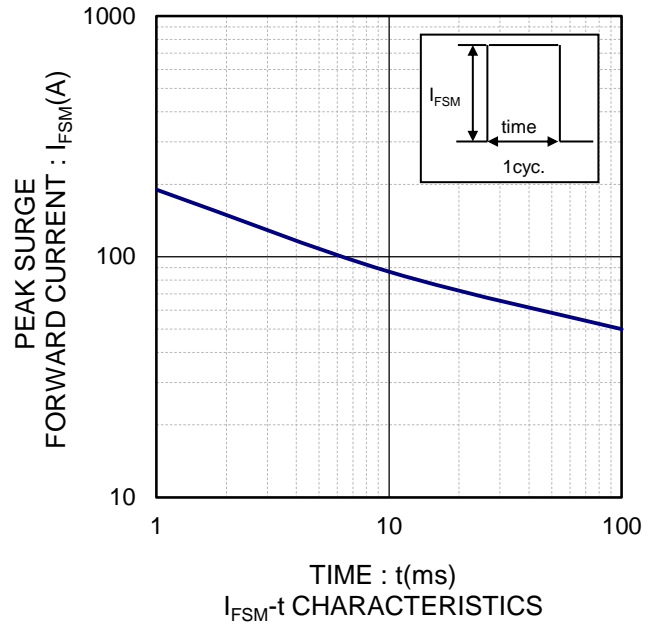
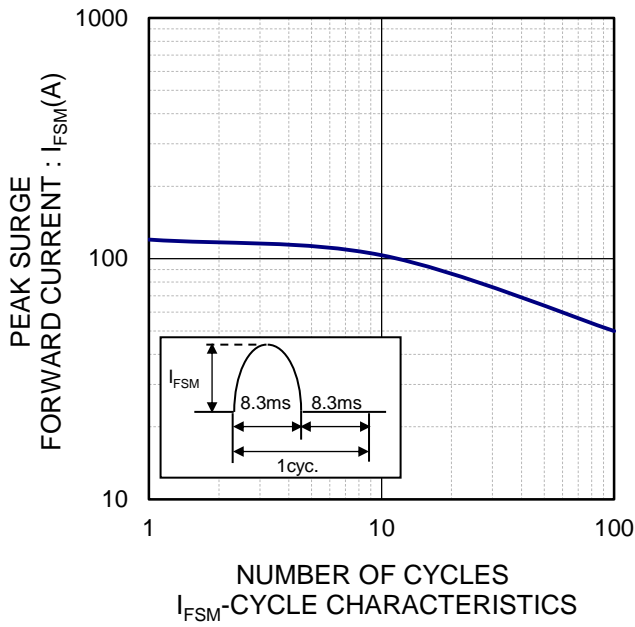


$I_{FSM}$  DISPERSION MAP

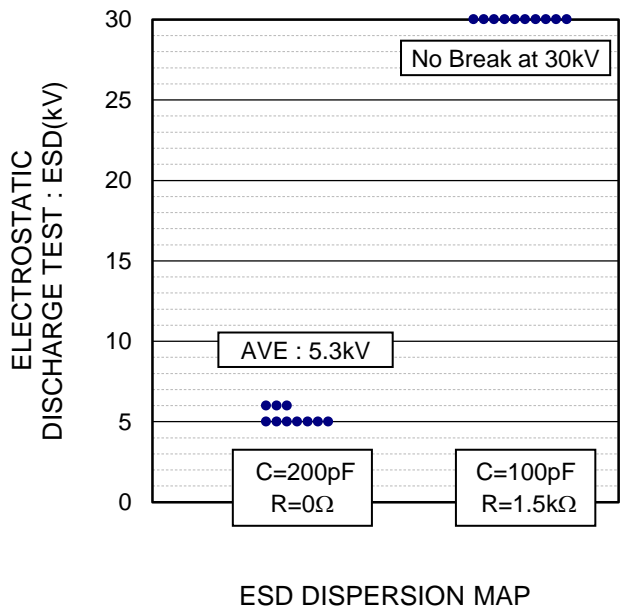
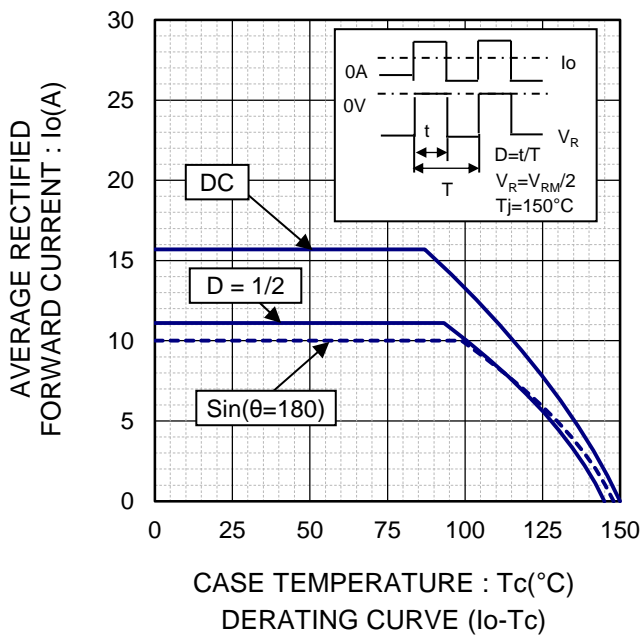
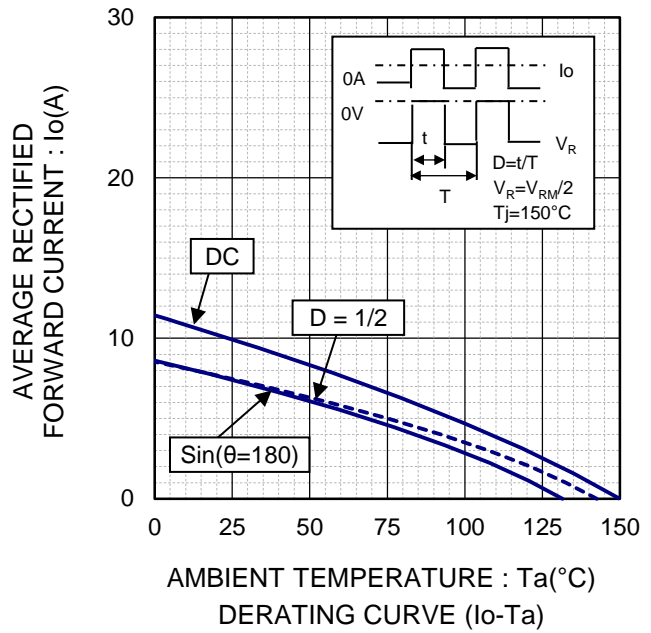
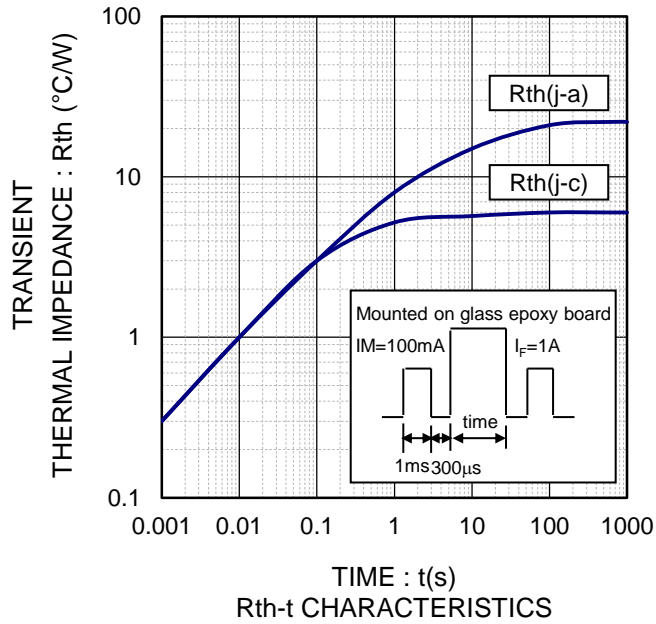


$t_{rr}$  DISPERSION MAP

●Electrical characteristic curves



●Electrical characteristic curves



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