

Schottky barrier diode

RB060M-30

● Applications

General rectification

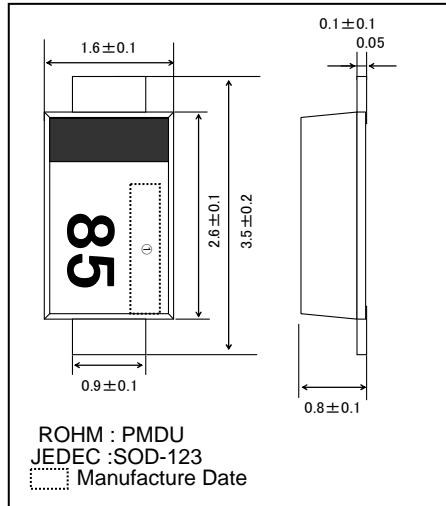
● Features

- 1) Small power mold type.(PMDU)
- 2) Low I_R
- 3) High reliability

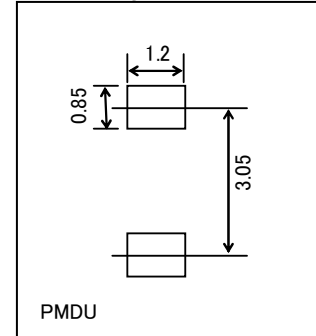
● Construction

Silicon epitaxial planar

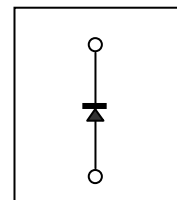
● Dimensions (Unit : mm)



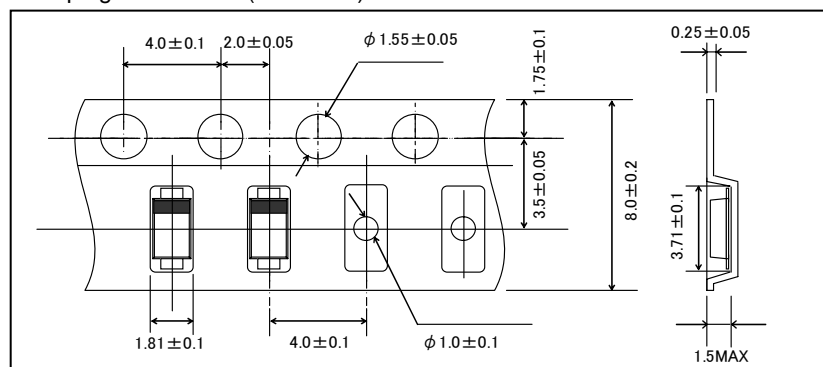
● Land size figure



● Structure



● Taping dimensions (Unit : mm)



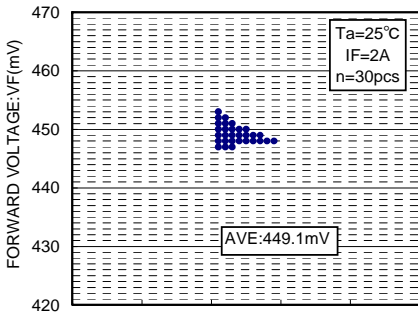
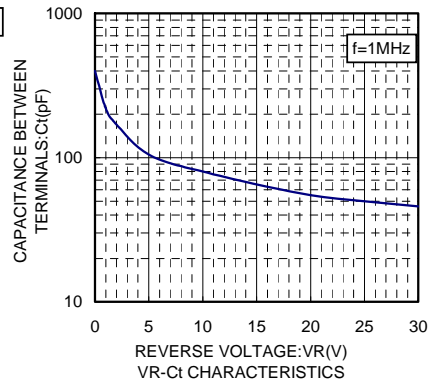
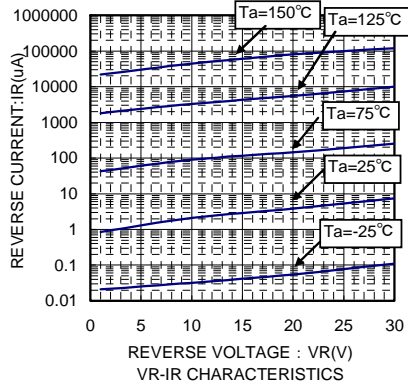
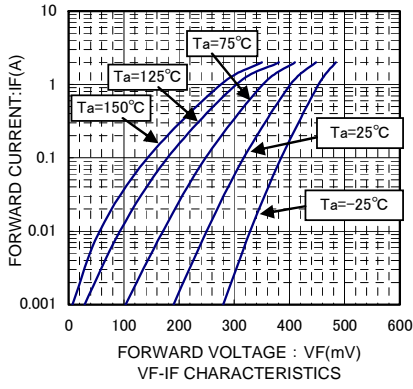
● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	2	A
Forward current surge peak (60Hz/1cycle)	I_{FSM}	55	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

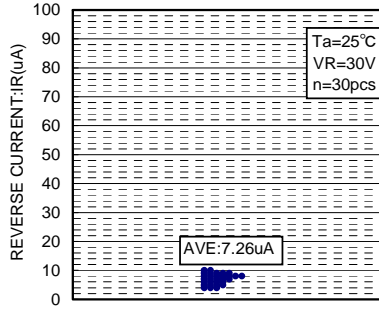
(*1) $T_c=65^\circ\text{C}$ MAX. Mounted on epoxy board. 180°Half sine wave

● Electrical characteristic (Ta=25°C)

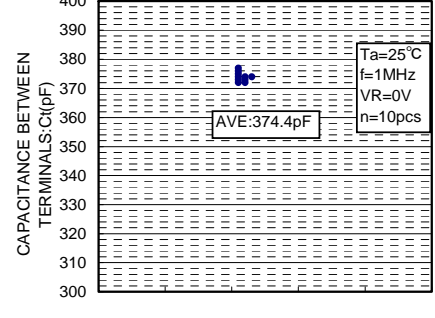
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	0.32	0.4	0.45	V	$I_F=1.0\text{A}$
	V_{F2}	0.36	0.44	0.49	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	10	50	μA	$V_R=30\text{V}$
ESD break down voltage	ESD	7	-	-	kV	C=200pF, R=0Ω forward and reverse : 1 time



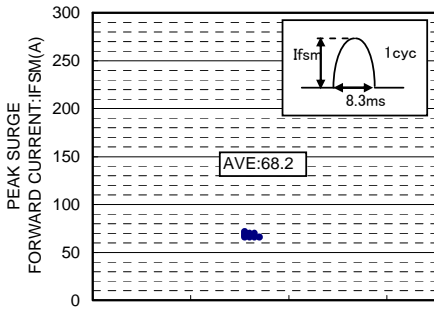
VF DISPERSION MAP



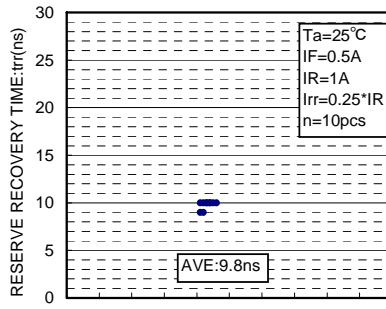
IR DISPERSION MAP



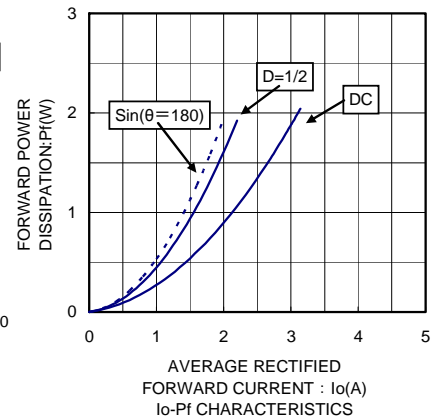
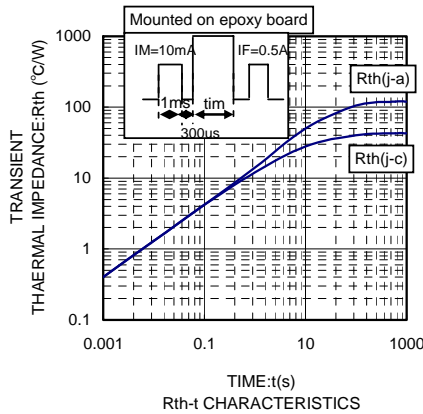
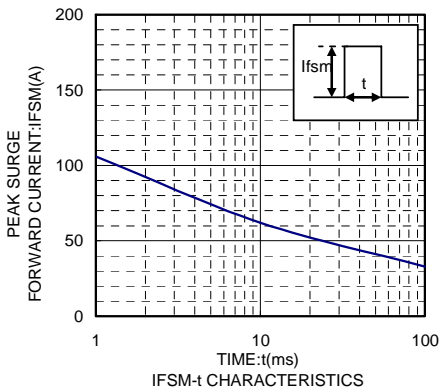
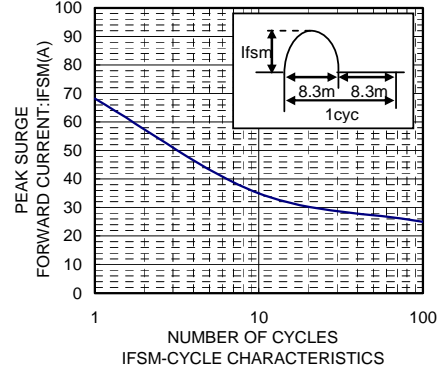
Ct DISPERSION MAP

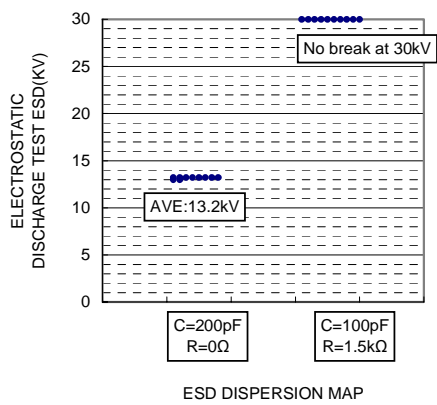
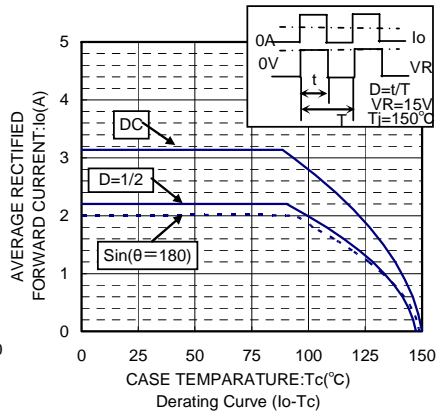
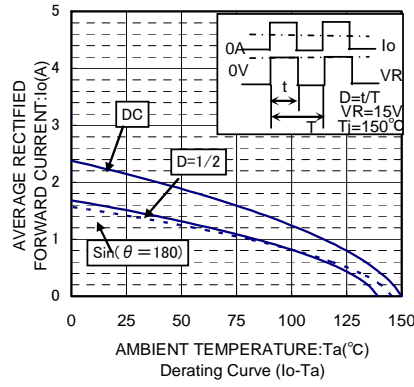
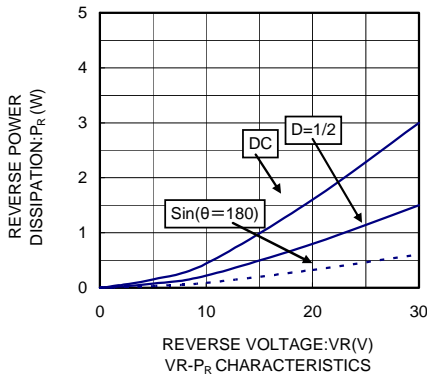


IFSM DISPERSION MAP



trr DISPERSION MAP





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