

Schottky barrier diode

RB060M-30

●Applications

General rectification

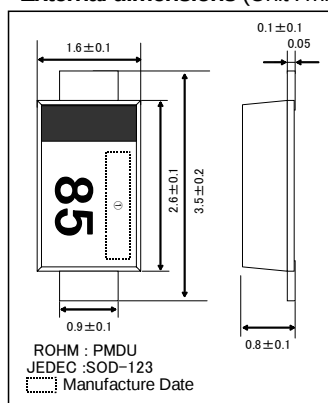
●Features

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

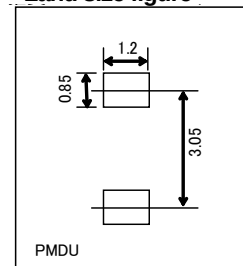
●Construction

Silicon epitaxial planar

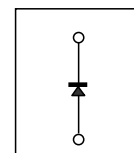
●External dimensions (Unit : mm)



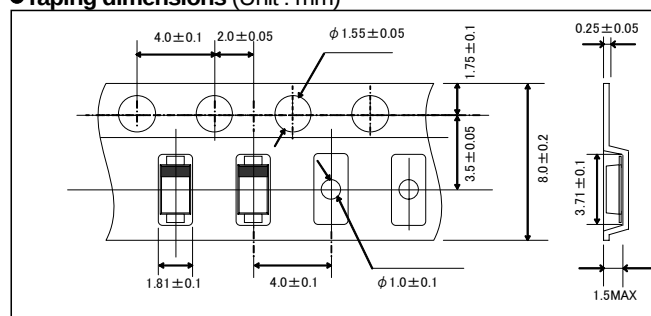
●Land size figure



●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·1cyc)	I_{FSM}	55	A
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

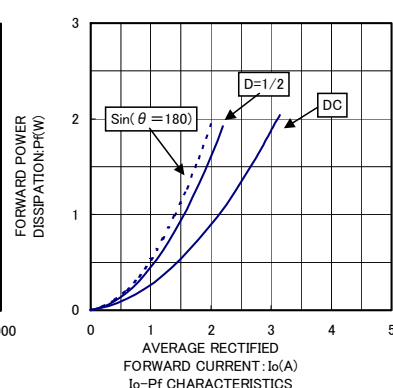
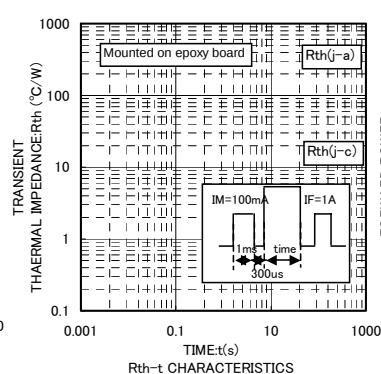
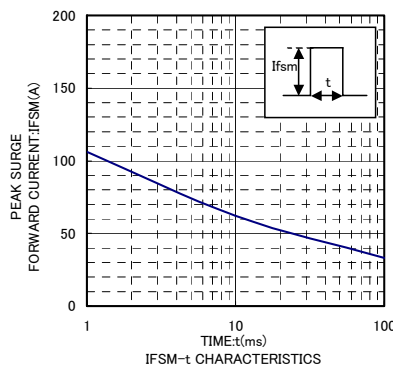
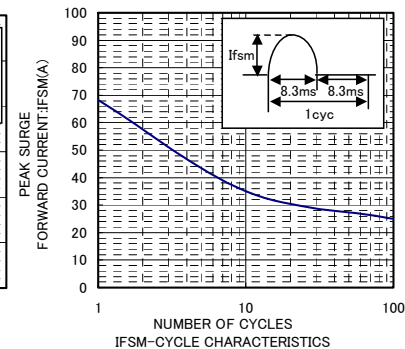
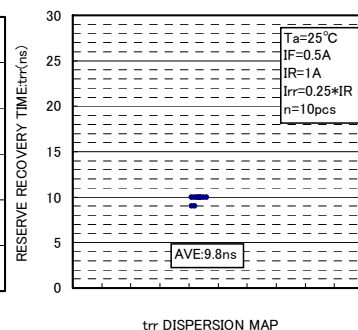
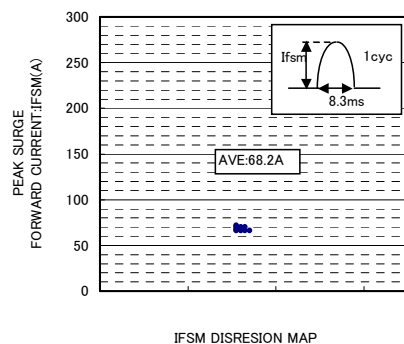
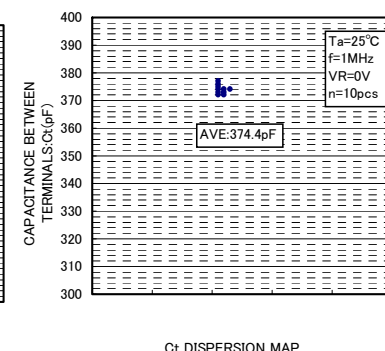
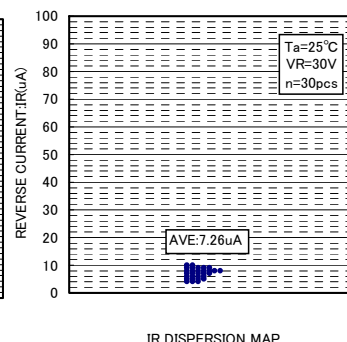
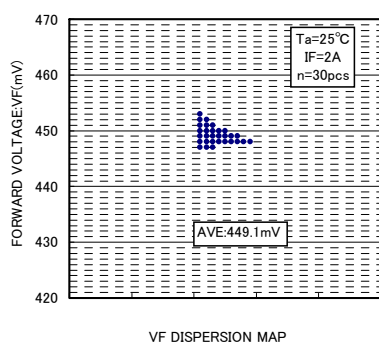
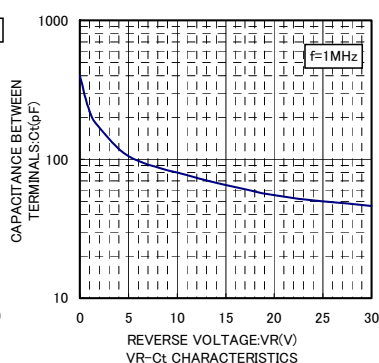
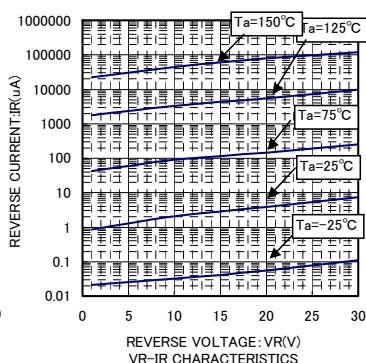
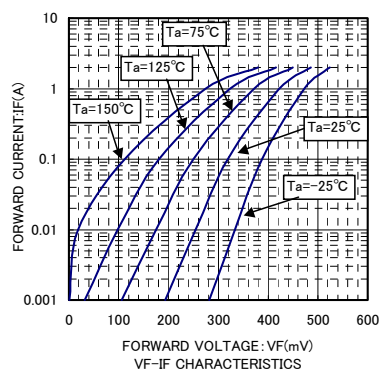
(*1) $T_C=65^{\circ}\text{C}$ MAX. Mounted on epoxy board. 180° Half sine wave

●Electrical characteristic (Ta=25°C)

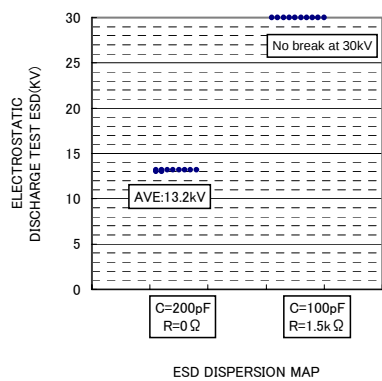
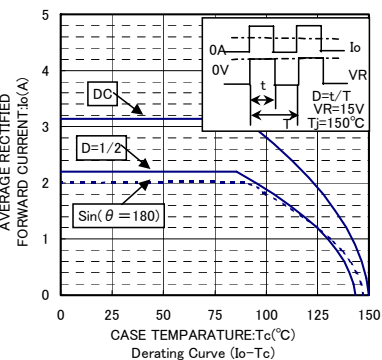
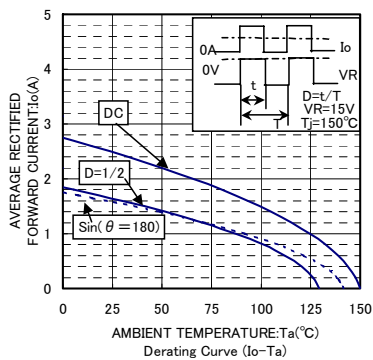
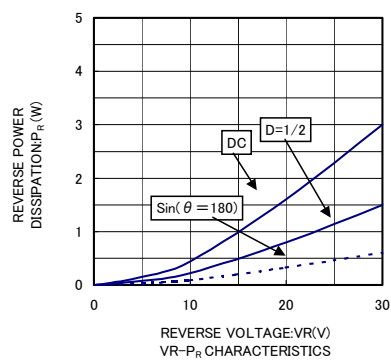
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	0.32	0.4	0.45	V	$I_F=1.0\text{A}$
	V_{F2}	0.36	0.44	0.49	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	10	50	μA	$V_R=30\text{V}$
ESD break down voltage	ESD	7	-	-	kV	C=200pF, R=0Ω forward and reverse : 1 time

Diodes

●Electrical characteristic curves



Diodes



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