

Schottky barrier diode

RB160M-30

● Applications

General rectification

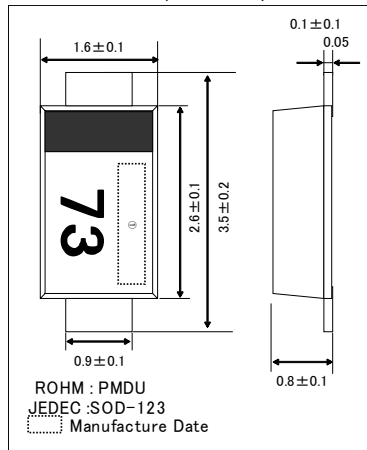
● Features

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

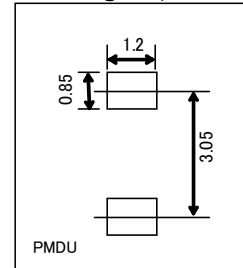
● Construction

Silicon epitaxial planar

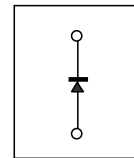
● Dimensions (Unit : mm)



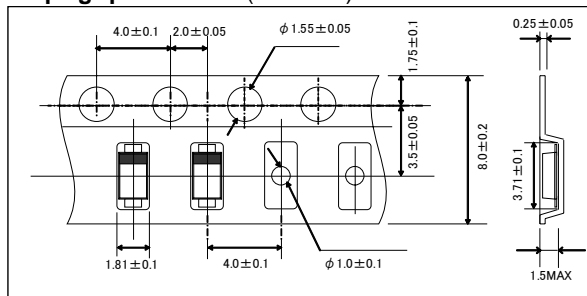
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)

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

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	1	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	30	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

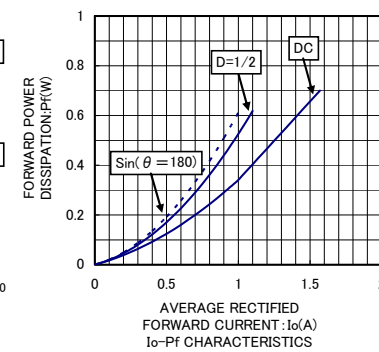
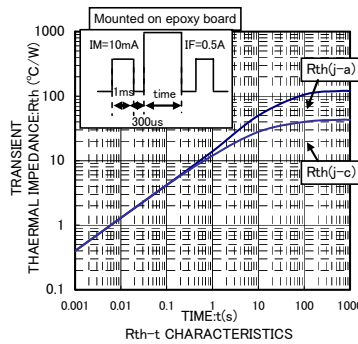
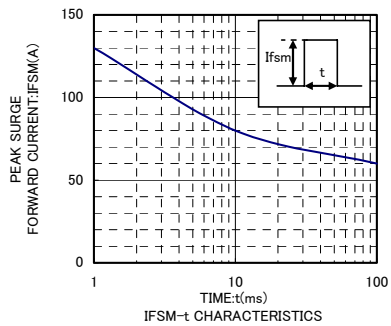
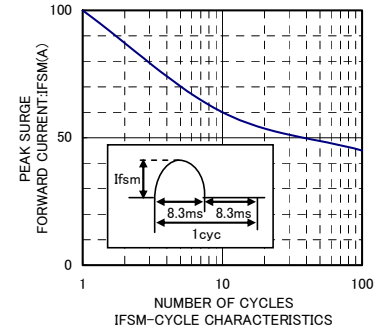
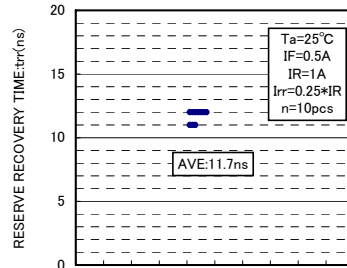
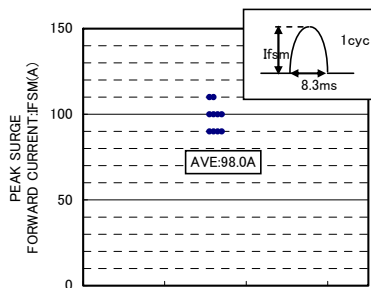
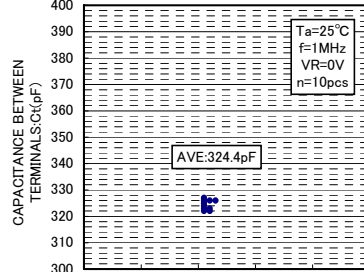
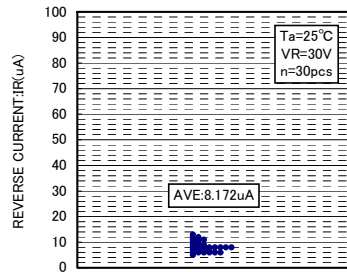
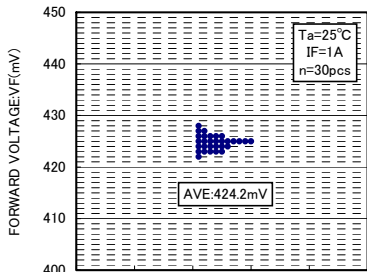
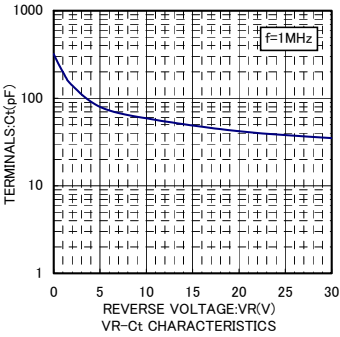
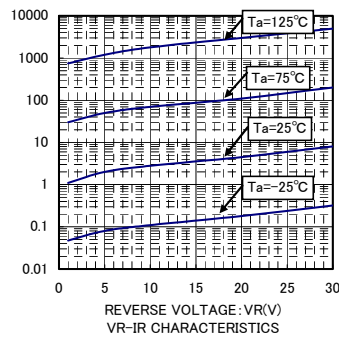
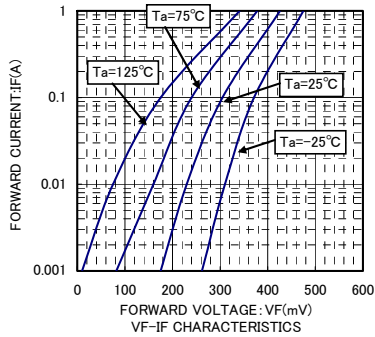
(*1) Mounted on epoxy board. 180° Half sine wave

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

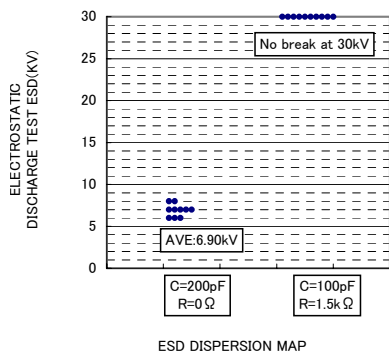
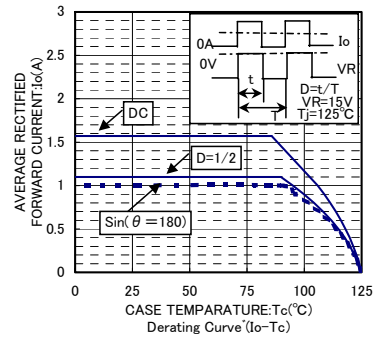
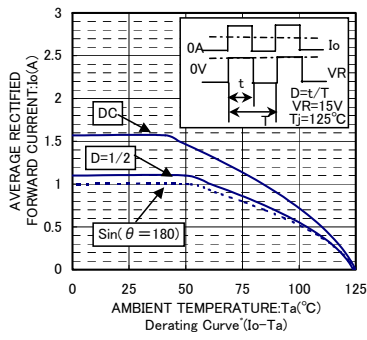
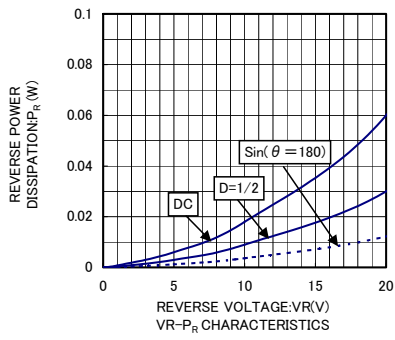
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.39	0.46	V	$I_F=0.5\text{A}$
	V_{F2}	-	0.43	0.48	V	$I_F=1.0\text{A}$
Reverse current	I_{R1}	-	3.0	20	μA	$V_R=15\text{V}$
	I_{R2}	-	9.0	50	μA	$V_R=30\text{V}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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