

Schottky barrier diode

RB160L-40

● **Applications**

General rectification

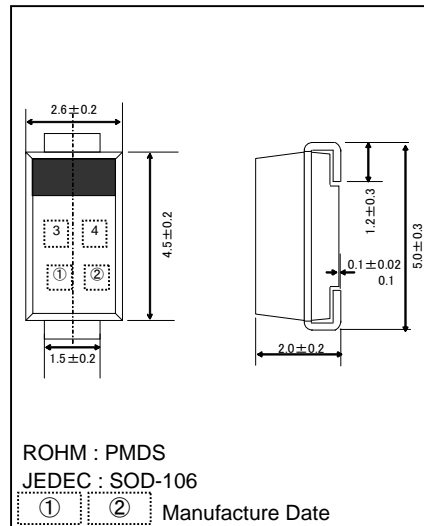
● **Features**

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

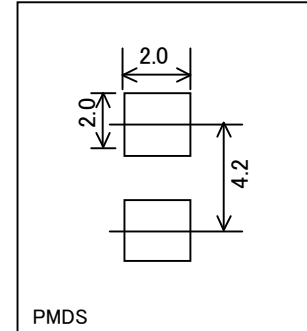
● **Construction**

Silicon epitaxial planer

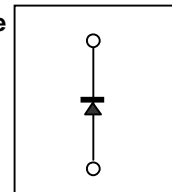
● **Dimensions (Unit : mm)**



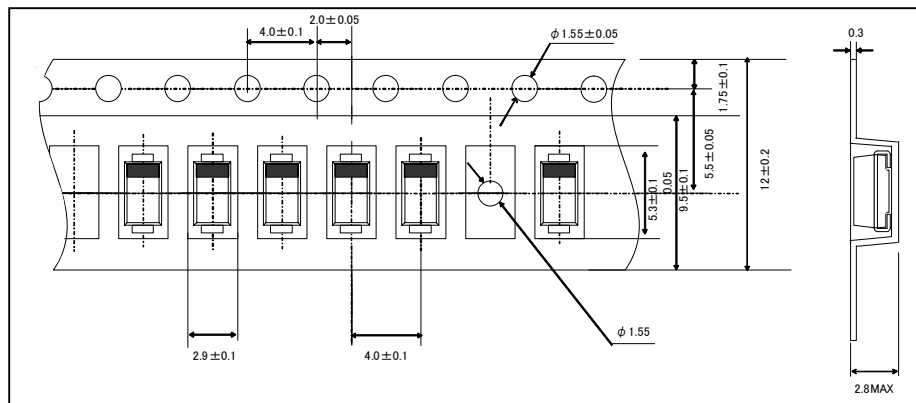
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



● **Absolute maximum ratings (Ta=25°C)**

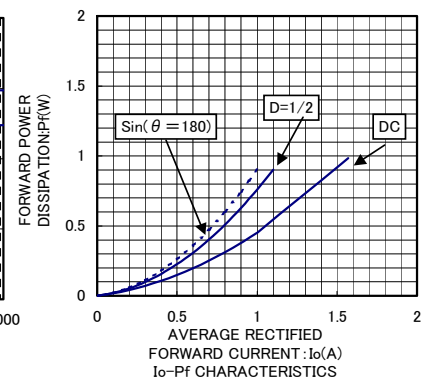
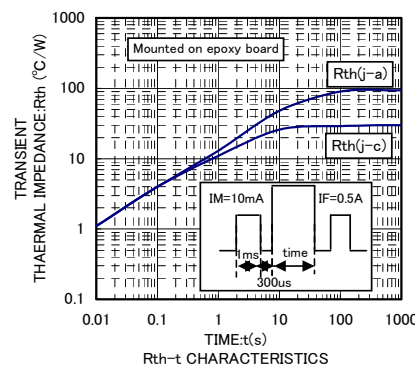
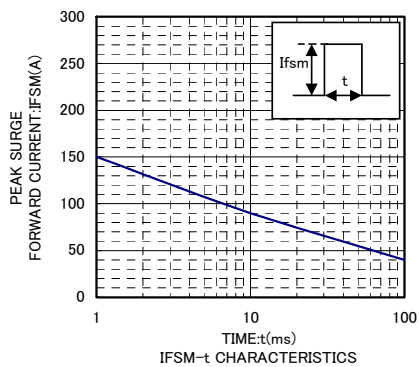
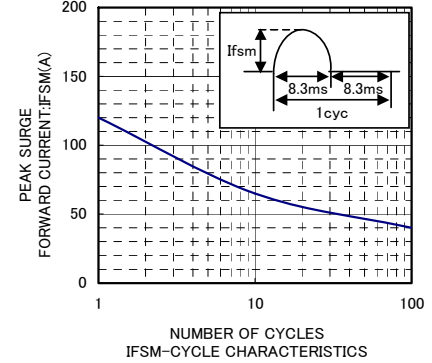
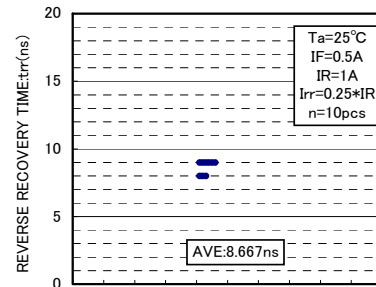
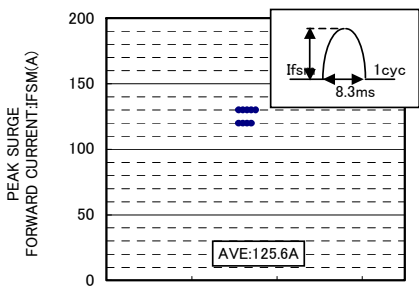
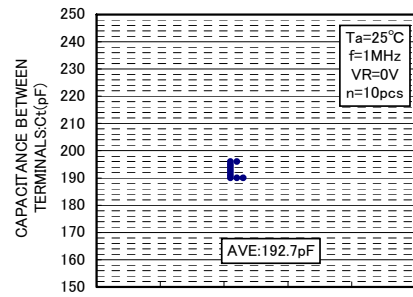
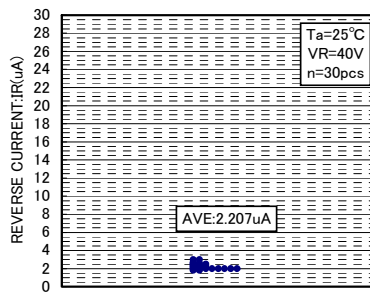
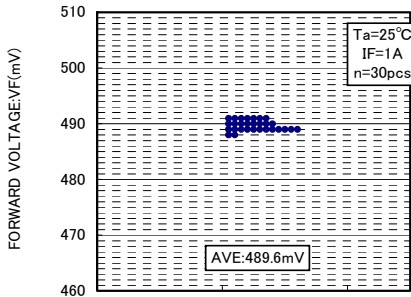
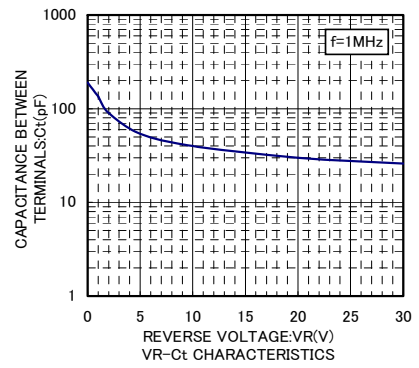
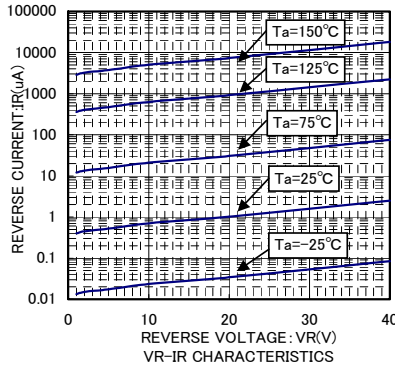
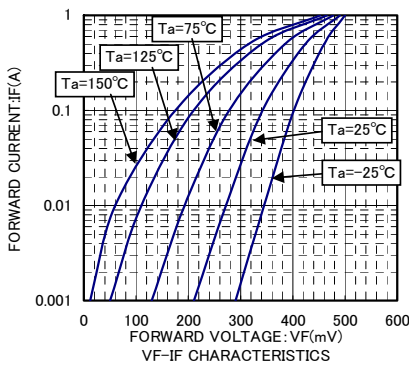
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz / 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

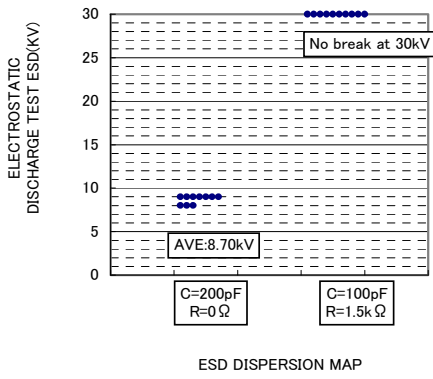
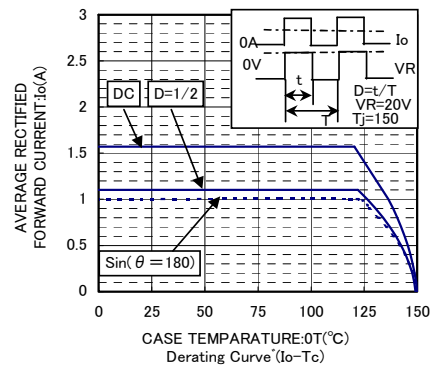
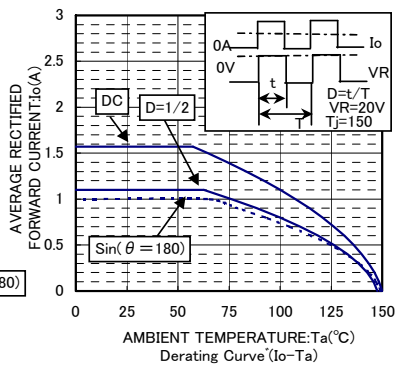
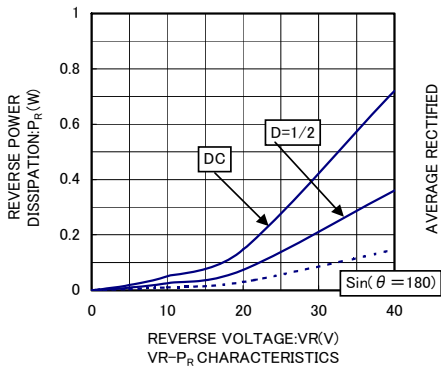
(*1) $T_c=90^\circ\text{C}$ max Mounted on epoxy board. 180° Half sine wave

● **Electrical characteristic (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.55	V	$I_F=1.0\text{A}$
Reverse current	I_{R1}	-	-	10	μA	$V_R=6\text{V}$
	I_{R2}	-	-	100	μA	$V_R=40\text{V}$

●Electrical characteristic curves





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