Schottky barrier diode

RB060L-40

●**Applications**

High frequency rectification
For switching power supply

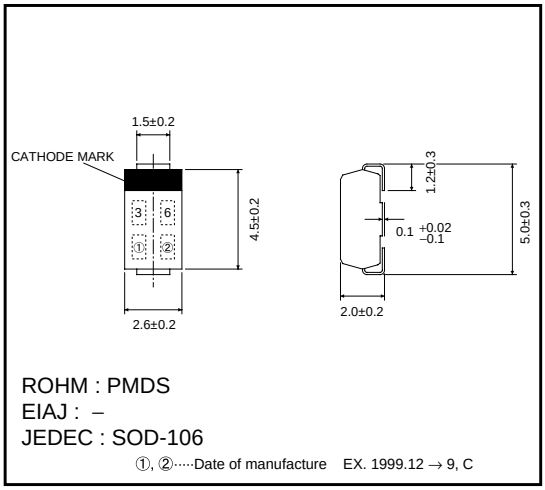
●**Features**

1) Compact power mold type. (PMDS)
2) I_O=2A guaranteed despite the size.
3) Low I_R. (I_R=10μA Typ.)

●**Construction**

Silicon epitaxial planar

●**External dimensions** (Units : mm)



ROHM : PMDS
EIAJ : –
JEDEC : SOD-106

①, ②·····Date of manufacture EX. 1999.12 → 9, C

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

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	40	V
Mean rectifying current*1	I_O	2.0	A
Peak forward surge current*2 (60Hz,1~)	I_{FSM}	70	A
Junction temperature	Tj	125	˚C
Storage temperature	Tstg	−40~+125	˚C

∗1 When mounted on an alumina PCBs (82×30×1.0 mm board), 180˚ half sine wave.
∗2 60Hz, ~

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

Parameter	Symbol	Max.	Unit	Conditions
Forward voltage	V_{F1}	0.50	V	I_F=2.0A
	V_{F2}	0.45	V	I_F=1.0A
Reverse current	I_R	1.0	mA	V_R=40V
Thermal resistance	θj-a	90	˚C / W	When mounting on alumina PCBs
	θj-a	120	˚C / W	When mounting on glass epoxy PCBs

●**Electrical characteristics curves** (Ta=25°C)

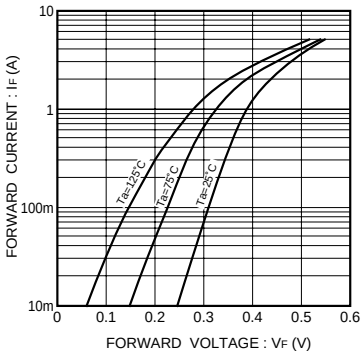


Fig.1 Forward characteristics

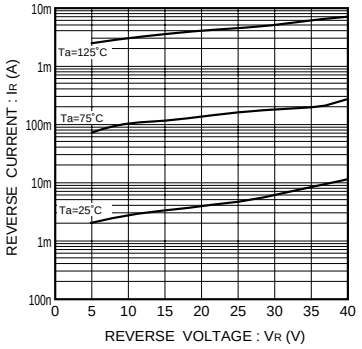


Fig.2 Reverse characteristics

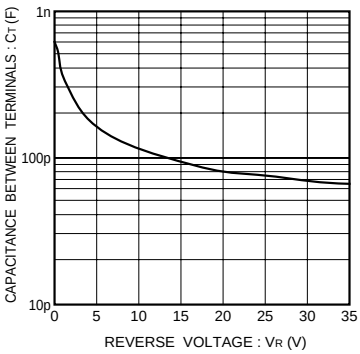


Fig.3 Capacitance between terminals characteristics

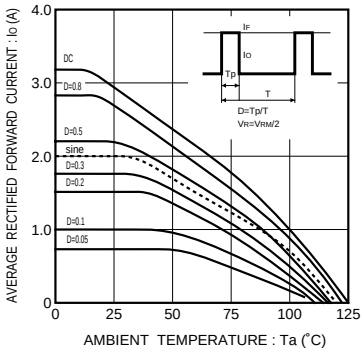


Fig.4 Derating curve (when mounted on an alumina PCBs)

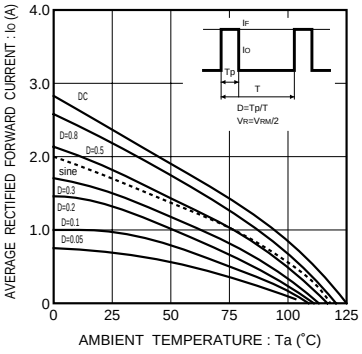


Fig.5 Derating curve (when mounted on a glass epoxy PCBs)

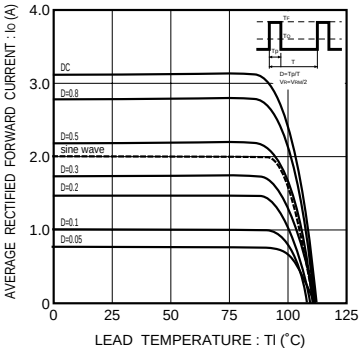


Fig.6 Derating curve (when mounted on a glass epoxy PCBs)

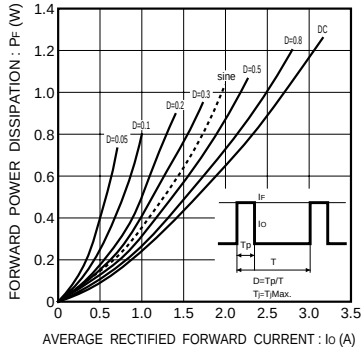


Fig.7 Forward power dissipation

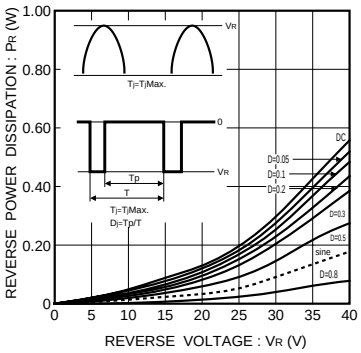


Fig.8 Reverse power dissipation