

Schottky barrier diode

RB081L-20

●Applications

High frequency rectification
For switching power supply

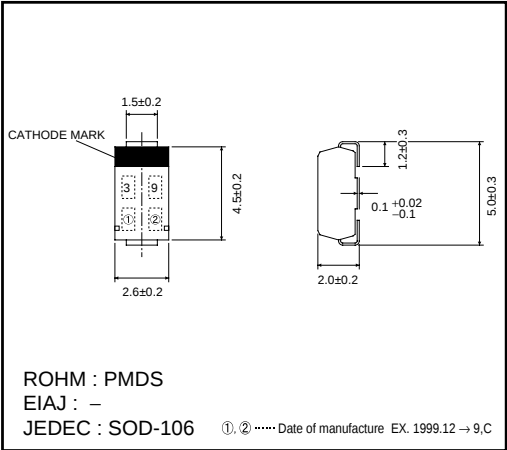
●Features

- 1) Compact power mold type. (PMDS)
- 2) Ultra low V_F . ($V_F=0.27V$ Typ. at 1A)
- 3) $I_o=5A$ guaranteed despite the size.

●Construction

Silicon epitaxial planar

●External dimensions (Units : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	25	V
DC reverse voltage	V_R	20	V
Mean rectifying current	I_{o1} *1	5	A
	I_{o2} *2	4	A
Peak forward surge current (60Hz 1 cycle)	I_{FSM}	70	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40~+125	°C

*1 When mounted on an alumina substrates (82×30×1.0mm), T_c Max.=90°C

*2 When mounted on an alumina substrates (82×30×1.0mm), $T_a=25^\circ C$

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	—	0.45	V	$I_F=5.0A$
Reverse current	I_R	—	0.7	mA	$V_R=20V$

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●Electrical characteristics curves (Ta=25°C)

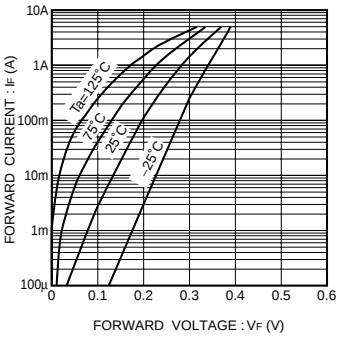


Fig.1 Forward characteristics

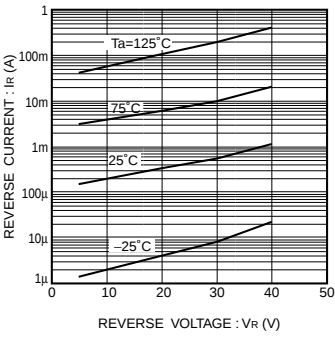


Fig.2 Reverse characteristics

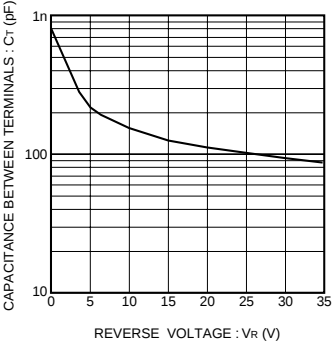


Fig.3 Capacitance between terminals characteristics

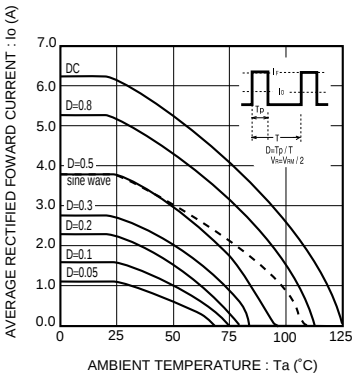


Fig.4 Derating curve (I_O - T_a)

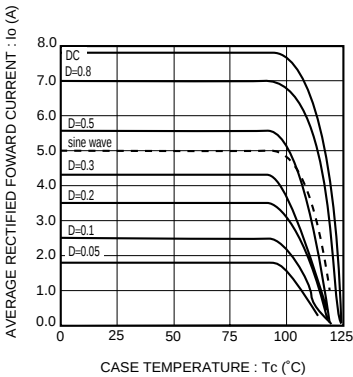


Fig.5 Derating curve (I_O - T_c)