

Shottky barrier diode

RB160M-60

●Application

General rectification.

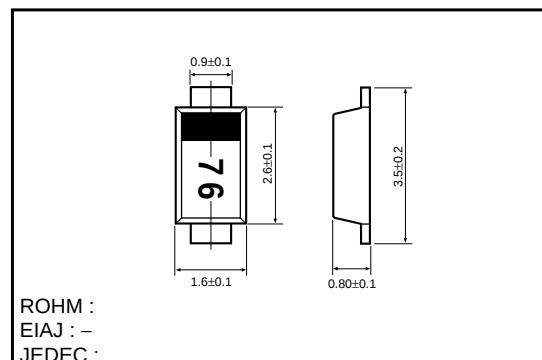
●Features

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

●Structure

Silicon Epitaxial Planer

●External dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current	I_O	1.0	A *
Forward current surge peak (60Hz / 1cyc.)	I_{FSM}	30	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	–40 to 150	°C

*Glass epoxy substrate at the time of assembler, half sine wave at 180.

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	–	0.54	0.58	V	$I_F=1.0A$
Reverse current	I_R	–	3.0	30	μA	$V_R=60V$

Diodes

●Electrical characteristic curves (Ta=25°C)

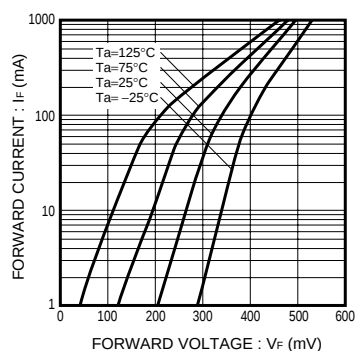


Fig.1 Forward Temperature Characteristics

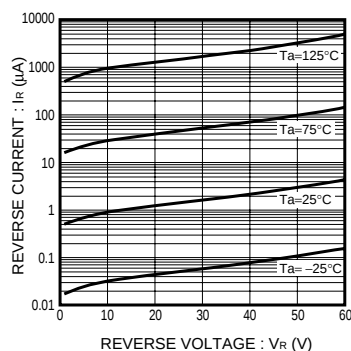


Fig.2 Reverse Temperature Characteristics

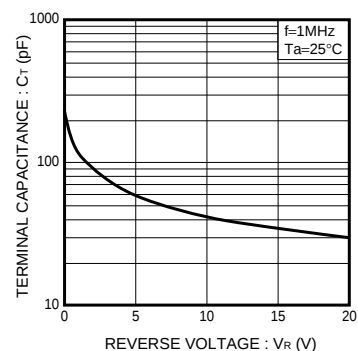


Fig.3 Capacitance Between Terminals Characteristics

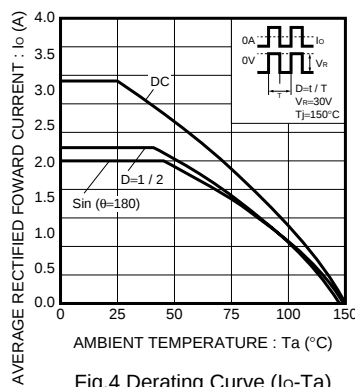


Fig.4 Derating Curve (Io-Ta)

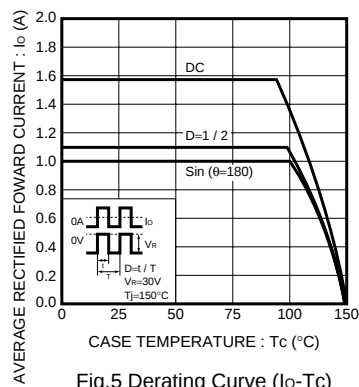


Fig.5 Derating Curve (Io-Tc)

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