



DESCRIPTION

The RB160M-40 is available in SOD-123 Package

FEATURES

- Low V_F schottky barrier diode
- For switching power supplies
- Battery protection against reversal current
- Available in SOD-123 Package

ORDERING INFORMATION

Package Type	Part Number
SOD-123	RB160M-40
Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products	

ABSOLUTE MAXIMUM RATINGS

$T_A=25^\circ\text{C}$

V_{RM} , Reverse Voltage (Repetitive Peak)	40V
V_R , Reverse Voltage (DC)	40V
I_O , Average Rectified Forward Current	1A
I_{FSM} , Forward Current Surge Peak (60Hz/1cyc.)	30A
T_J , Junction Temperature	150°C
T_{STG} , Storage Temperature	-40°C~+150°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

$T_A = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 1.0\text{A}$	-	0.46	0.51	V
Reverse Current	I_R	$V_R = 40\text{V}$	-	4.0	30	μA

TYPICAL CHARACTERISTICS

T_A = 25°C

Figure 1. Forward Temperature Characteristics

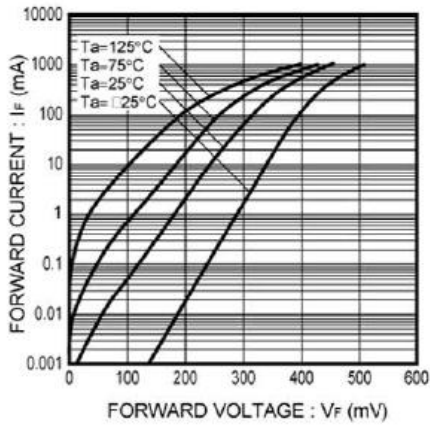


Figure 2. Reverse Temperature Characteristics

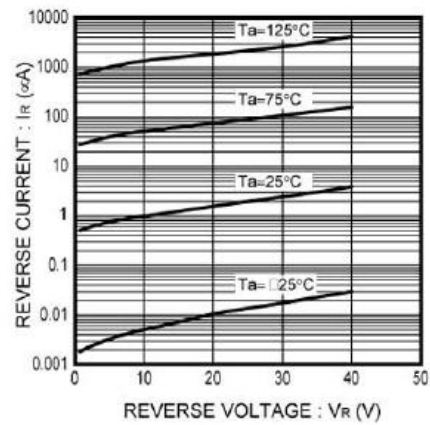


Figure 3. Capacitance Between Terminals Characteristics

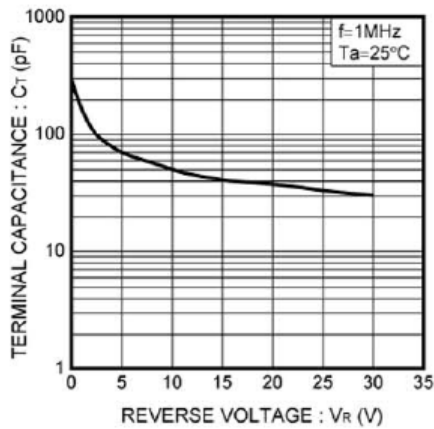


Figure 4. Derating Curve (I_O-T_A)

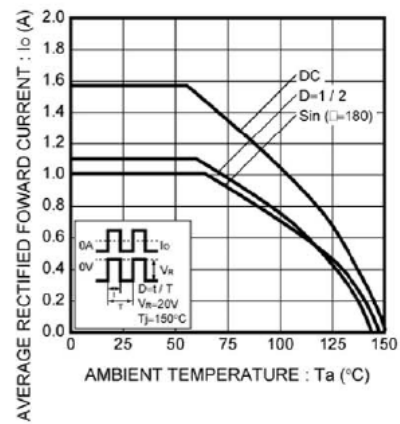


Figure 5. Derating Curve (I_O-T_C)

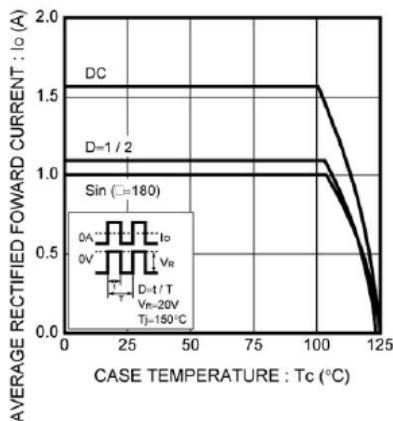
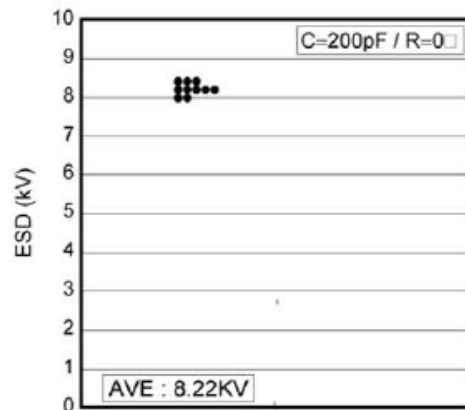


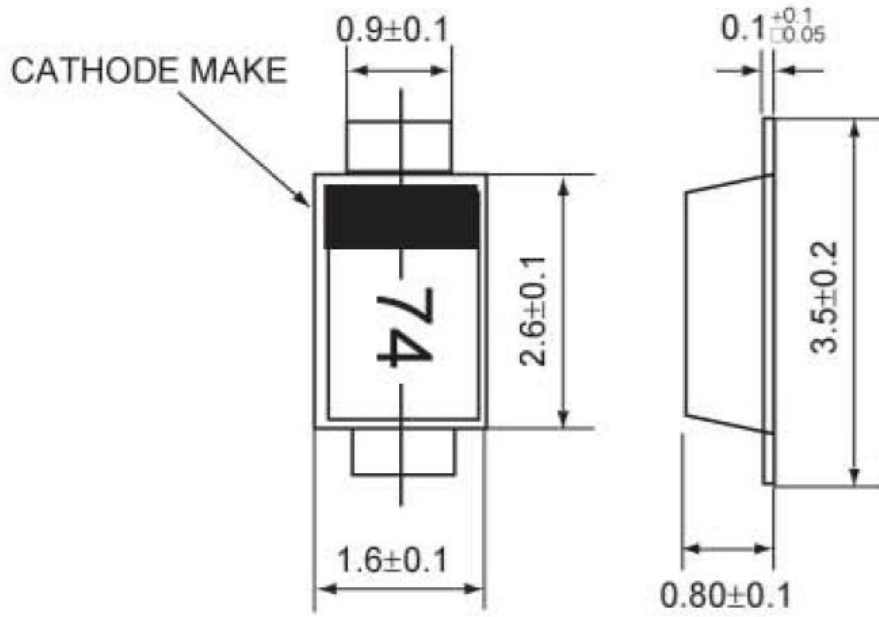
Figure 6. ESD





PACKAGE INFORMATION

Dimension in SOD-123 Package





IMPORTANT NOTICE

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