



RB751V-40

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volts **CURRENT** 300 mA

SOD-323 Unit: inch (mm)

FEATURES

- Extremely Fast Switching Speed
- Very Low V_F : 0.325V (Typ) at $I_F = 1\text{ mA}$
- Surface mount package ideally suited for automatic insertion
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

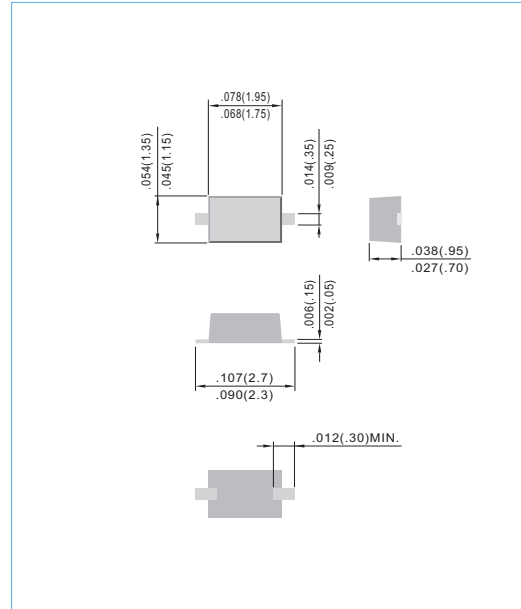
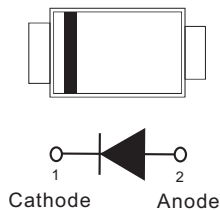
Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx Weight : 0.008 gram

Polarity : Color band cathode

Marking : P60



ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Peak Reverse Voltage	V_{RRM}	40	V
Reverse DC Voltage	V_R	30	V
Maximum Forward Current	$I_{F(AV)}$	0.3	A
Power Dissipation (Note 1)	P_{TOT}	0.2	W
Peak Forward Surge Current at $t=1000\text{ms}$	I_{FSM}	0.6	A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 125	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance, Junction to Ambient ⁽¹⁾	$R_{\theta JA}$	635	$^{\circ}\text{C/W}$

Note : 1. FR-4 Board = 70 x 60 x 1mm. Minmum Pad Layout

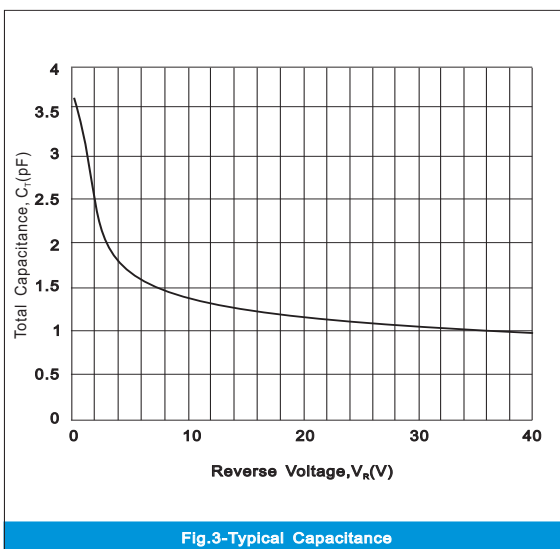
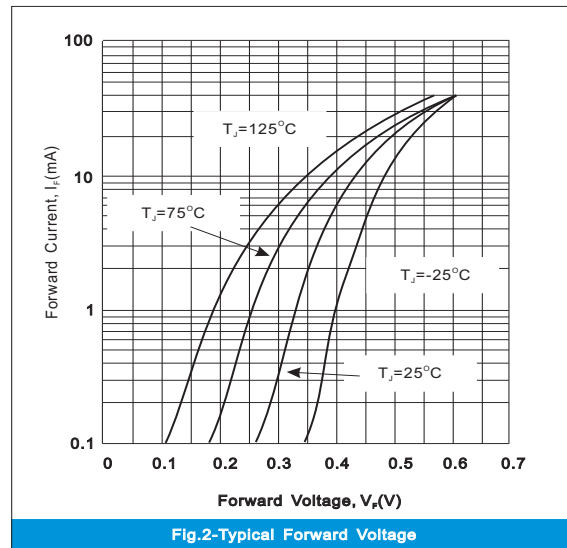
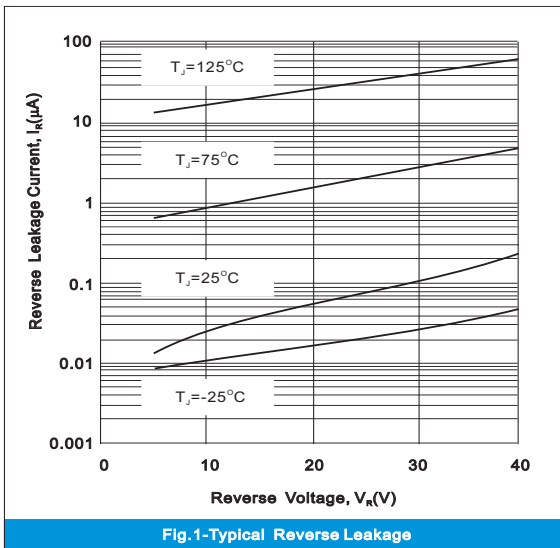


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ELECTRICAL CHARACTERISTICS ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	I_R	$V_R=30\text{V}$	-	-	0.5	μA
Forward Voltage	V_F	$I_F=1\text{mA}$	-	-	0.37	V
Total Capacitance	C_T	$V_R=1\text{V}, F=1\text{MHz}$	-	3	5	pF

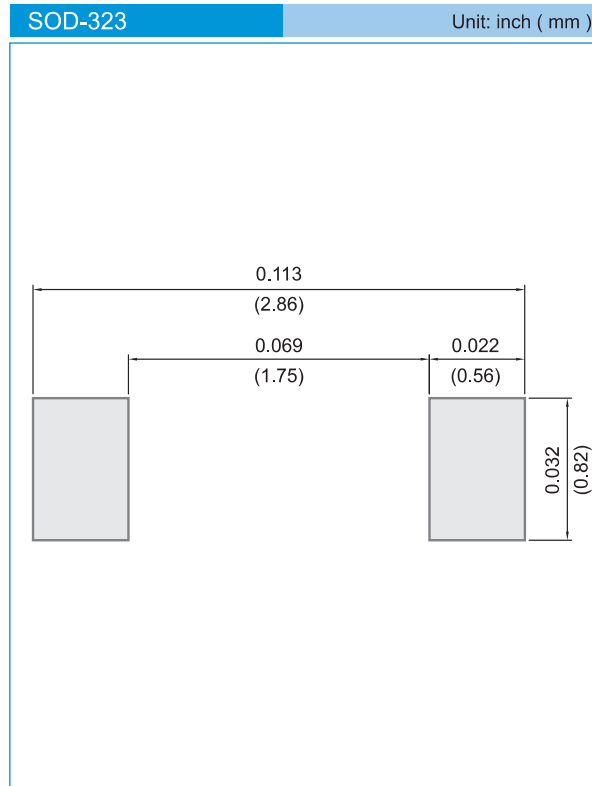
ELECTRICAL CHARACTERISTICS CURVE





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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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