

# RB751V-40

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 40 Volt **CURRENT** 300 mA

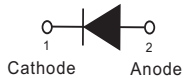
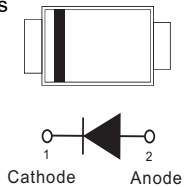
**SOD-323** Unit : inch(mm)

### 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
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight: 0.0041 grams, 0.00014 ounces
- 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
Average 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 150	$^{\circ}\text{C}$

### THERMAL CHARACTERISTICS

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

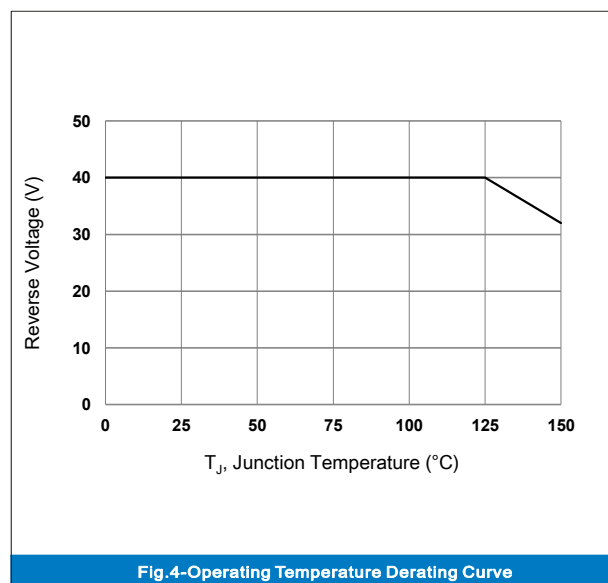
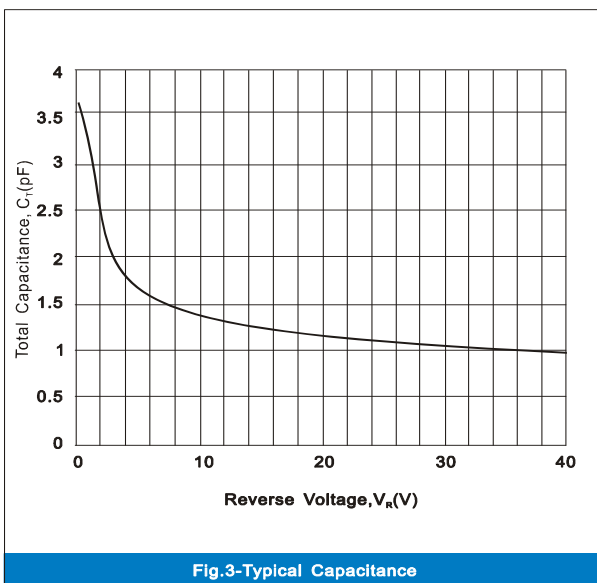
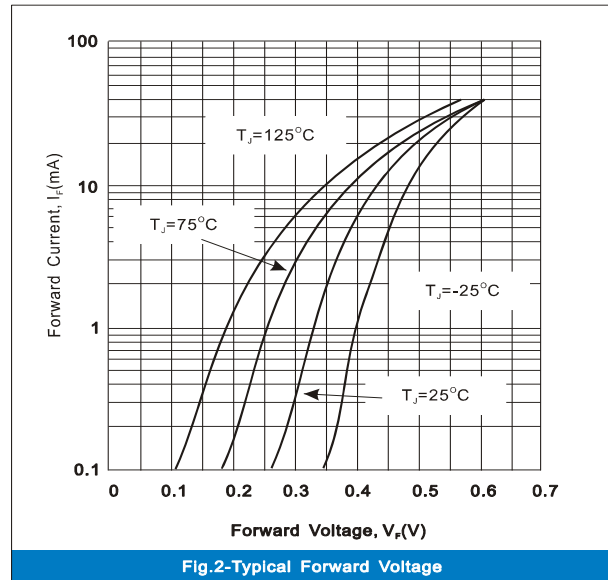
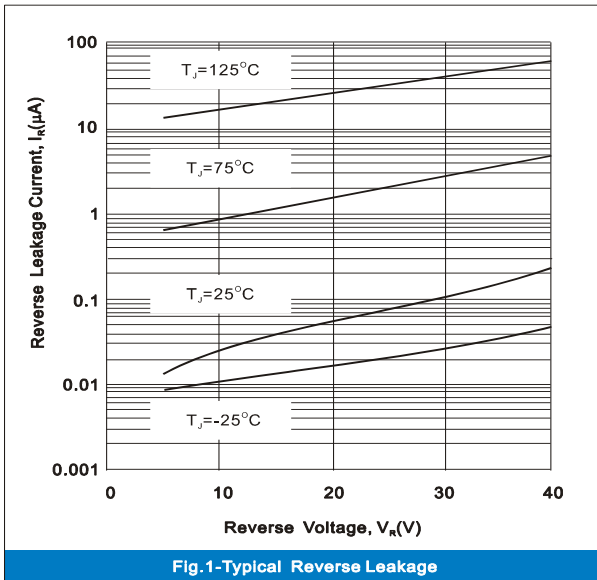
Note : 1. FR-4 Board = 70 x 60 x 1mm. Minmum Pad Layout

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

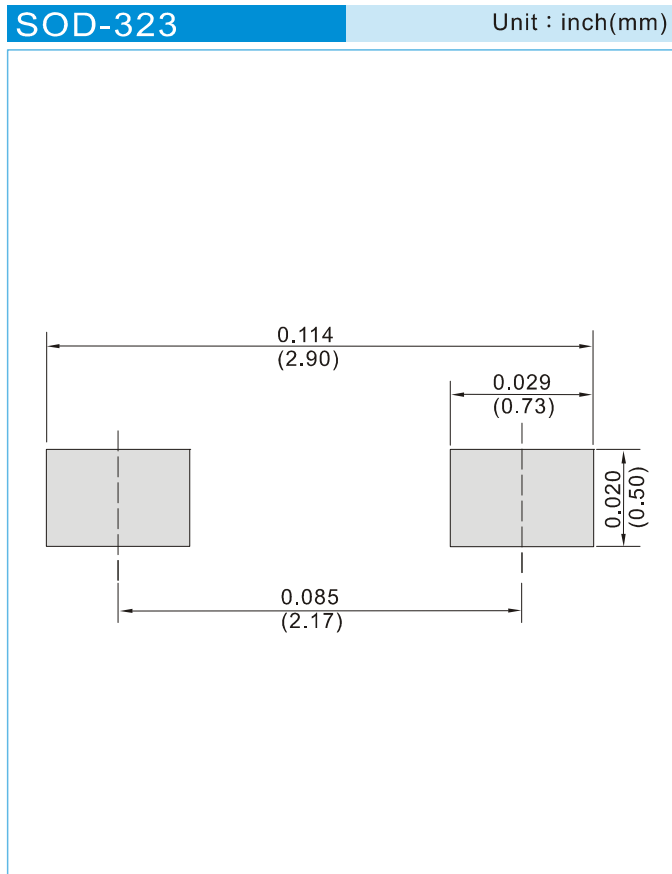
Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	$I_R$	$V_R=30\text{V}$	-	-	0.5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=1\text{mA}$	-	-	0.37	V
Total Capacitance	$C_T$	$V_R=1\text{V}, F=1\text{MHz}$	-	3	5	pF

## 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

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