

RB751V-40X

SURFACE MOUNT SCHOTTKY DIODES

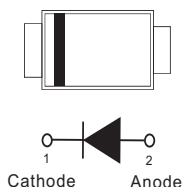
VOLTAGE 40 Volt **CURRENT** 30 mA

FEATURES

- Extremely Fast Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. .
(Halogen Free)

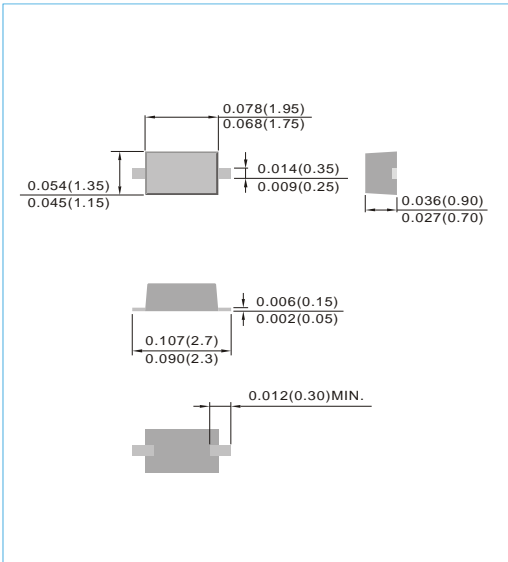
MECHANICAL DATA

- 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 : X60



SOD-323

Unit : inch(mm)



ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Peak Reverse Voltage	V_{RRM}	40	V
Reverse DC Voltage	V_R	30	V
Average Forward Current	$I_{F(AV)}$	30	mA
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200	mA
Typical Junction Capacitance ($V_R=1V$, $f=1MHz$)	C_J	2.5	pF
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	650	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.



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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	$I_F=1\text{mA}$ $T_J=25^{\circ}\text{C}$	-	0.33	0.37	V
		$I_F=1\text{mA}$ $T_J=125^{\circ}\text{C}$	-	0.19	-	

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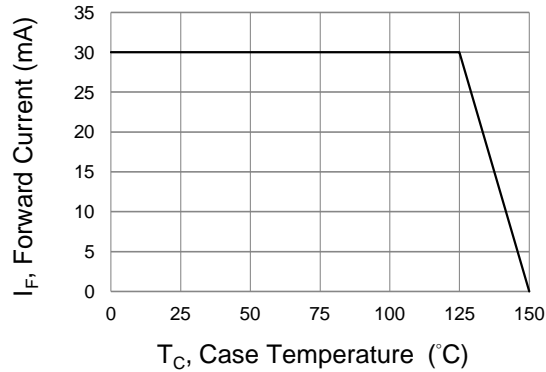


Fig.1 Forward Current Derating Curve

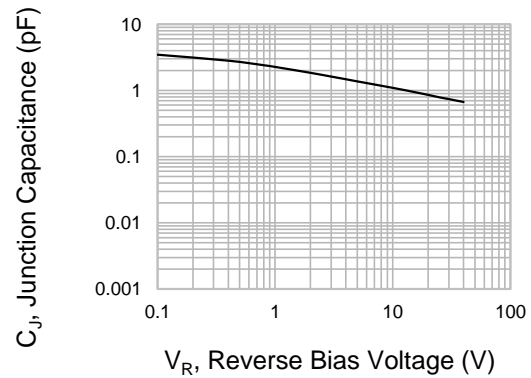


Fig.2 Typical Junction Capacitance

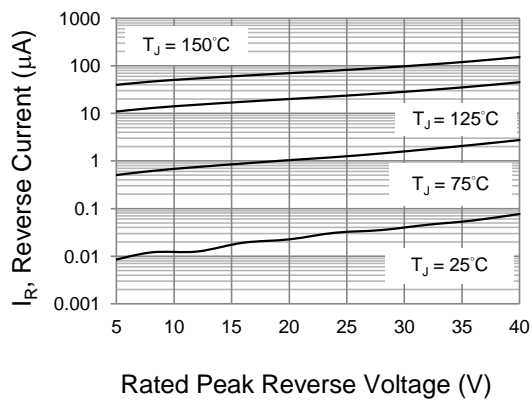


Fig.3 Typical Reverse Characteristics

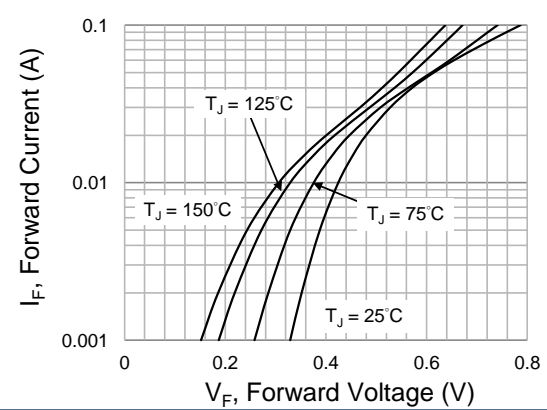


Fig.4 Typical Forward Characteristics

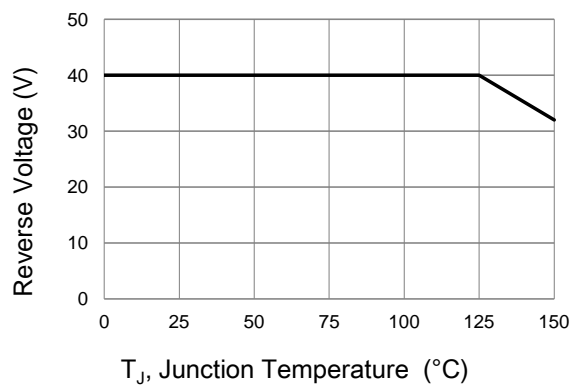


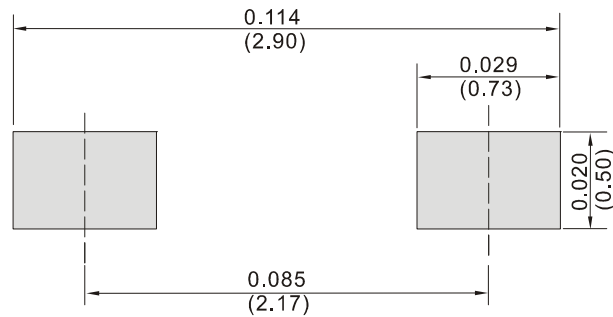
Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

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

RB751V-40X

Part No_packing code_Version

RB751V-40X_R1_00001

RB751V-40X_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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