RB751V-40X

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE	40 Volts	POWER	30 mA

FEATURES

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

MECHANICAL DATA

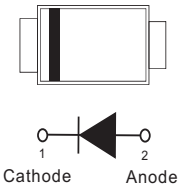
Case : SOD-323, Plastic

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

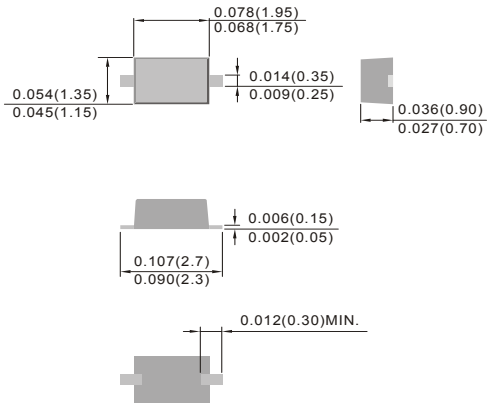
Appox Weight : 0.0041 grams, 0.00014 ounces

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 (JEDEC method)	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	°C/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150	°C

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

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ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Leakage Current	I_R	V_R=30V	-	-	0.5	μA
Forward Voltage	V_F	I_F=1mA T_J=25°C	-	0.33	0.37	V
		I_F=1mA T_J=125°C	-	0.19	-	

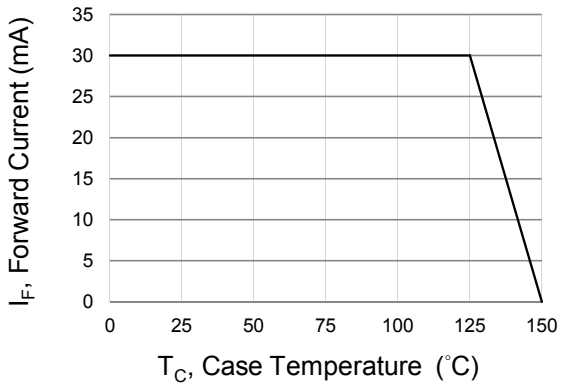


Fig.1 Forward Current Derating Curve

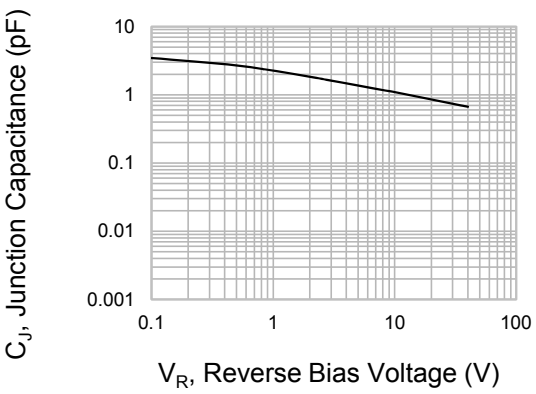


Fig.2 Typical Junction Capacitance

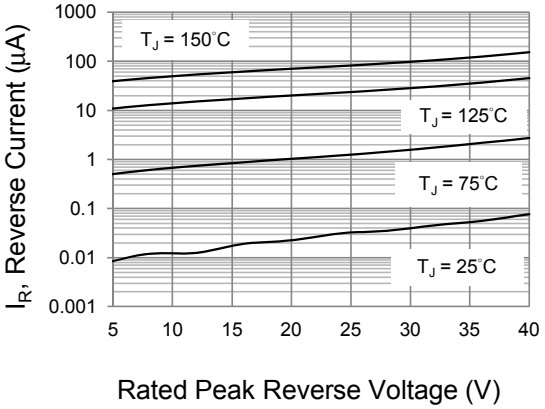


Fig.3 Typical Reverse Characteristics

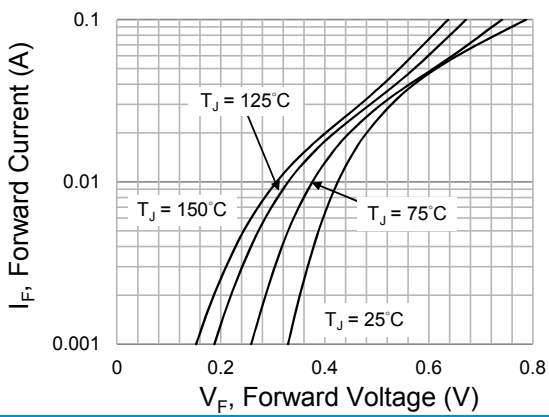
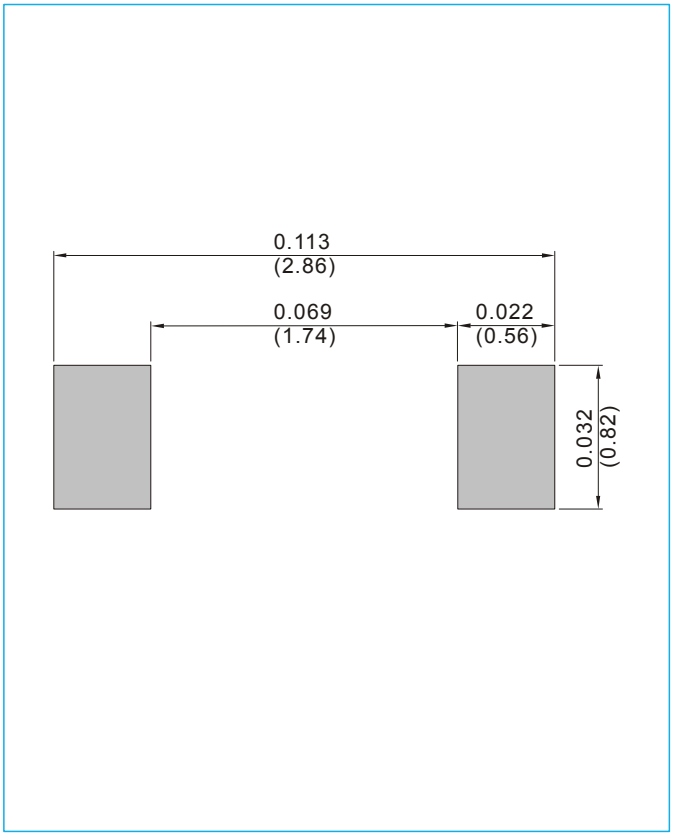


Fig.4 Typical Forward Characteristics

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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	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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