

RB751S40X

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE

40 Volt

CURRENT

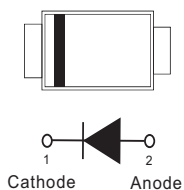
30 mA

FEATURES

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

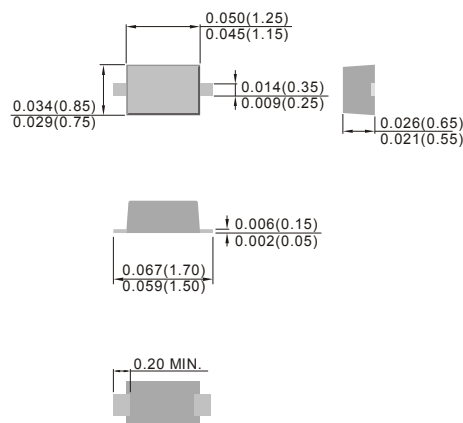
MECHANICAL DATA

- Case : SOD-523 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.00005 ounces, 0.0014 grams
- Marking : XR



SOD-523

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)	$R_{\theta JA}$	750	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

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

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

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

RB751S40X

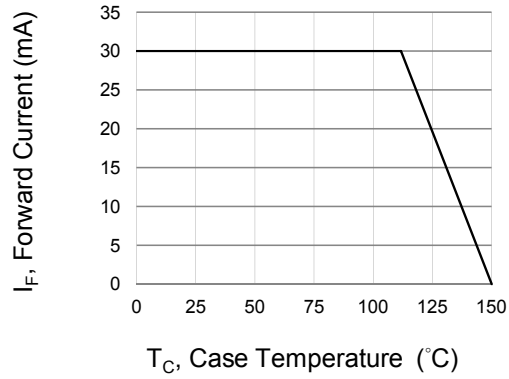


Fig.1 Forward Current Derating Curve

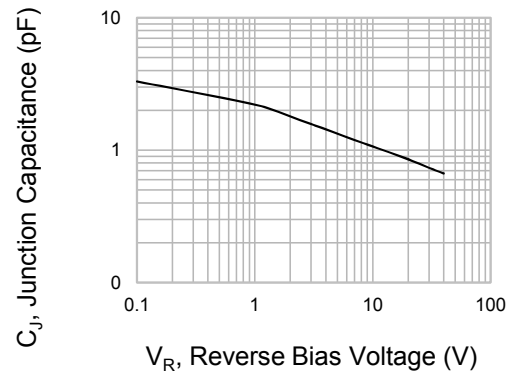


Fig.2 Typical Junction Capacitance

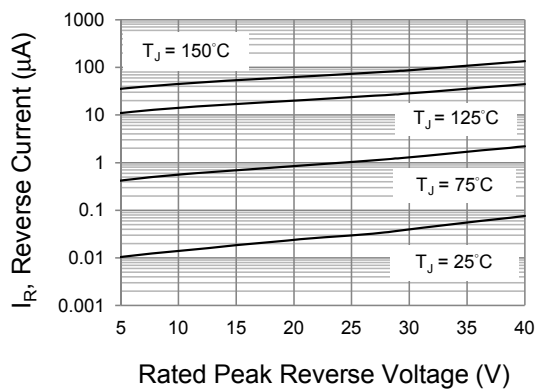


Fig.3 Typical Reverse Characteristics

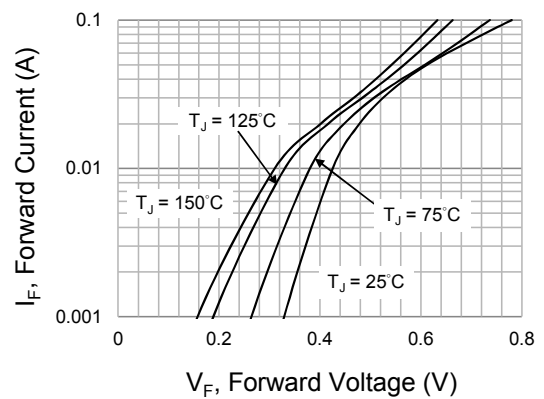


Fig.4 Typical Forward Characteristics

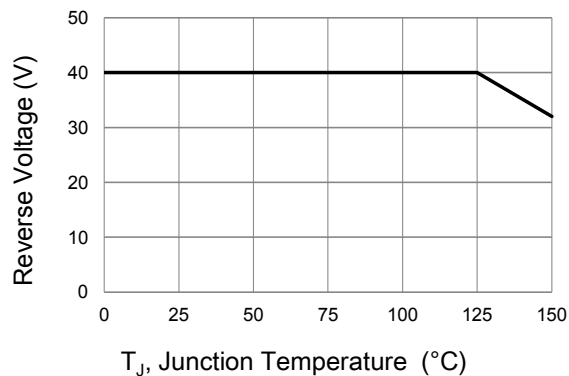


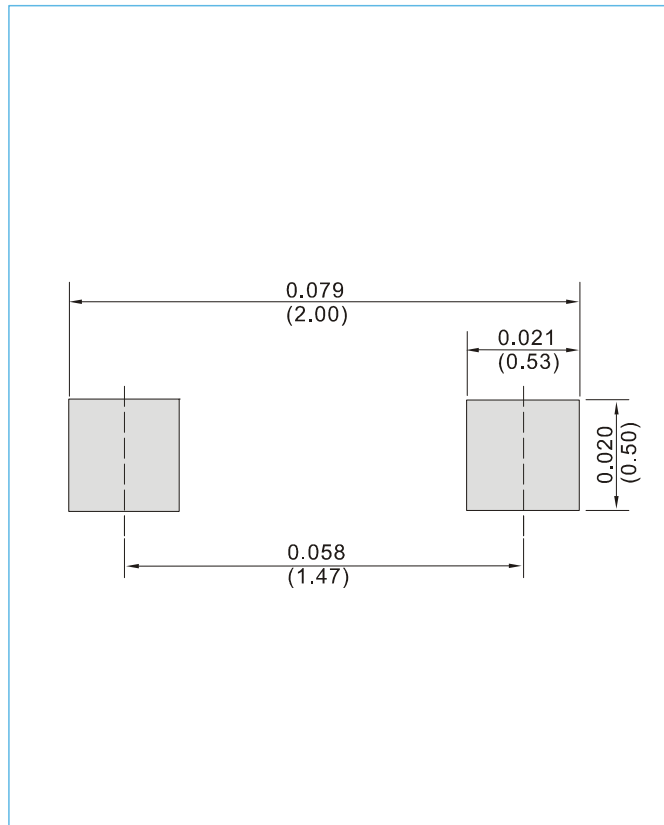
Fig.5 Operating Temperature Derating Curve

RB751S40X

MOUNTING PAD LAYOUT

SOD-523

Unit : inch(mm)



ORDER INFORMATION

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

RB751S40X

Part No_packing code_Version

RB751S40X_R1_00001

RB751S40X_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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