

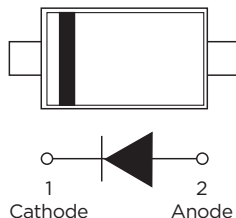
PART NUMBER	PACKAGE	VOLTAGE	CURRENT	CIRCUIT CONFIGURATION
RB751V-40X-□VL E = 7" Embossed T&R (5,000) U = 13" Embossed T&R (12,000)	SOD-323	40V	30mA	SINGLE

FEATURES:

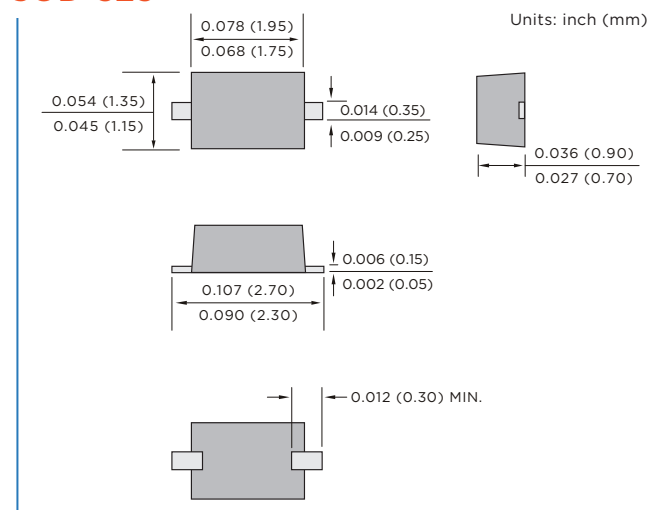
- Extremely Fast Switching Speed
- Surface mount package ideally suited for automatic insertion

MECHANICAL DATA:

- Case: SOD-323, plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0041 ounces, 0.00014 grams
- Marking Code: X60



SOD-323



ABSOLUTE RATINGS

RATING	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 sinewave 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.

ENVIRONMENTAL INFORMATION

RoHS Status	10 of 10 Compliant
REACH Status	Compliant
Halogen Status	Halogen Free
Conflict Mineral Status	Conflict Mineral Free
Moisture Sensitivity Level (MSL)	1

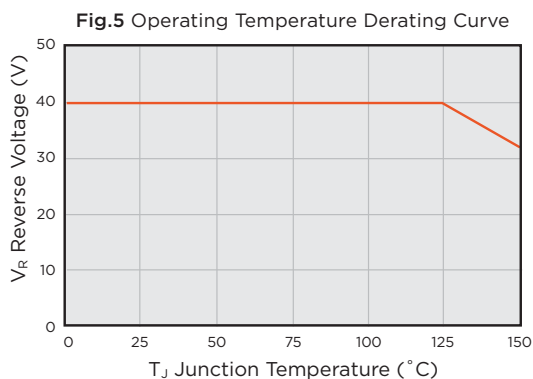
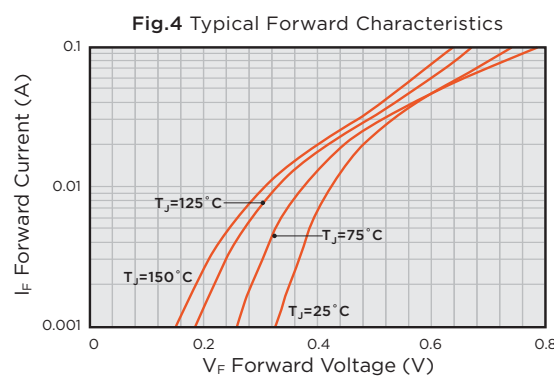
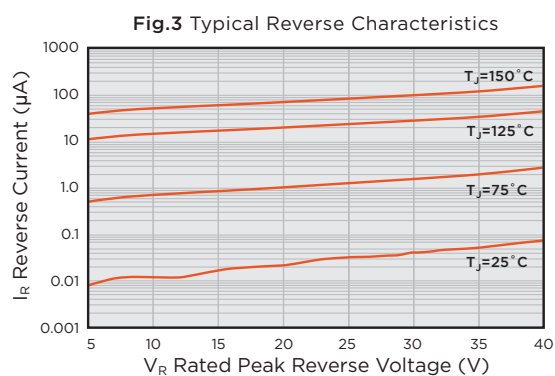
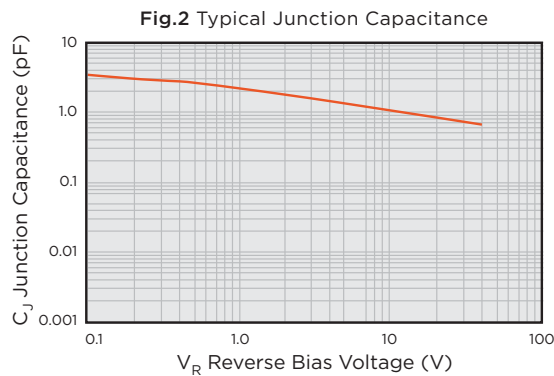
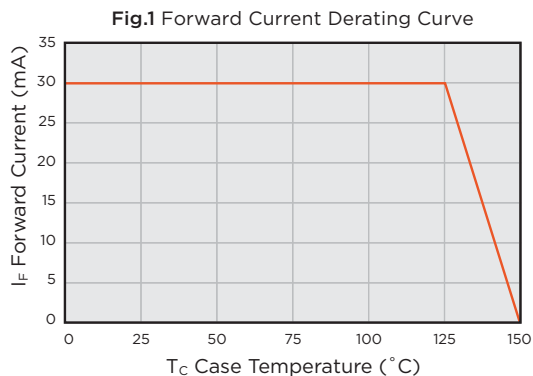


ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Reverse Leakage Current	I_R	$V_R=30V$	-	-	0.5	μA
Forward Voltage	V_F	$I_F=1mA$ $T_J=25^{\circ}C$	-	0.33	0.37	V
		$I_F=1mA$ $T_J=125^{\circ}C$	-	0.19	-	

TYPICAL CHARACTERISTIC CURVES



MOUNTING PAD LAYOUT

