



SURFACE MOUNT SCHOTTKY DIODES

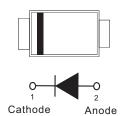
VOLTAGE 45 Volts CURRENT 100 mA

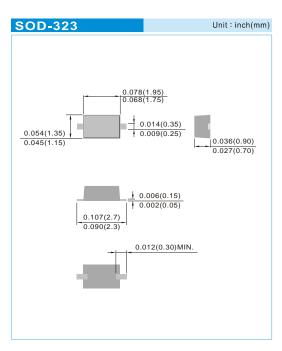
FEATURES

- Extremely Fast Switching Speed
- Very Low V_F : 0.37V (Typ) at I_F = 10mA
- 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: 0.00014 ounces, 0.0041 grams
- · Polarity: Color band cathode
- Marking: 500





ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Peak Reverse Voltage	V _{RRM}	45	V
Reverse DC Voltage	V _R	30	V
Maximum Forward Current	I _{F(AV)}	0.1	Α
Maximum Forward Peak Current at t=8.3ms	 FSM	1	Α
Power Dissipation (Note 1)	P _{TOT}	0.2	W
Junction Temperature	T _J	-55 to + 125	°C
Storage Temperature	T _{STG}	-55 to + 125	°C

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance, Junction to Ambient (Note 1)	$R_{_{\thetaJA}}$	700	°C/W

NOTE:

1. Mounted on an FR-4 PCB, single-sided copper, with 76.2x114.3 mm copper pad area.

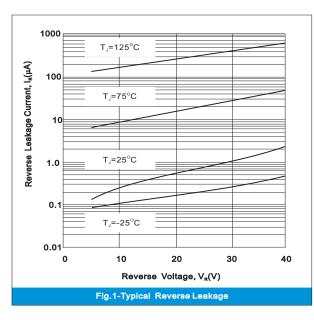


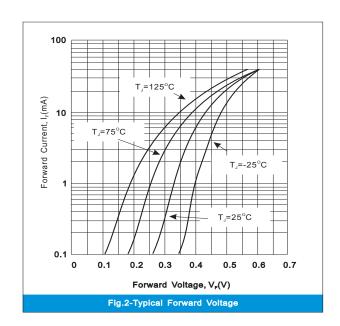


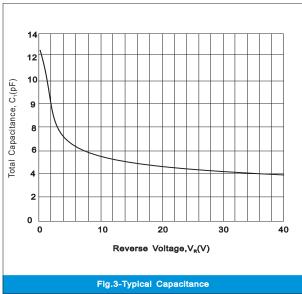
ELECTRICAL CHARACTERISTICS ($T_J = 25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	I _R	$V_R = 10 V$	-	-	1	μА
Forward Voltage	V _F	I _F =10mA	-	-	0.45	V
Total Capacitance	Ст	$V_R = 10V, F = 1MH_Z$	-	6	-	pF

ELECTRICAL CHARACTERISTICS CURVE



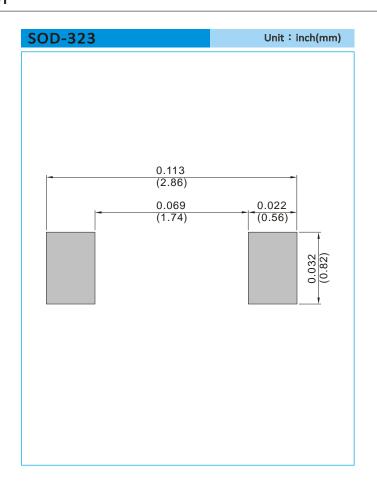








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





Part No_packing code_Version

RB500V-40_R1_00001 RB500V-40_R2_00001

For example:



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)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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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