



SURFACE MOUNT SWITCHING DIODES

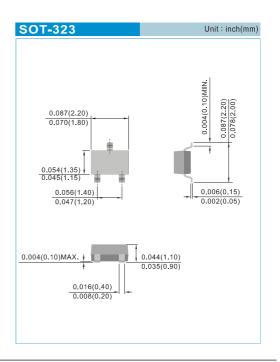
VOLTAGE 100Volt POWER 200mWatt

FEATURES

- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams

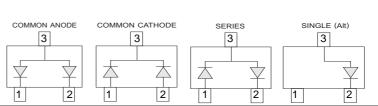


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAW56W	BAV70W	BAV99W	BAL99W	UNITS
Marking Code		JC	JA	JB	JF	
Reverse Voltage	Vr		V			
Peak Reverse Voltage	Vrm		V			
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	lo		mA			
Peak Forward Surge Current,0.001ms	IFSM		Α			
Power Dissipation Derate Above 25°C	Ртот		mW			
Maximum Forward Voltage	VF		V			
Maximum DC Reverse Current at 25V 75V	lr		μΑ			
Maximum Junction Capacitance(Notes 1)	Сı		pF			
Maximum Reverse Recovery Time (Notes 2)	Trr		ns			
Typical Thermal Resistance, Junction to Ambient(Notes 3) Junction to Case (Notes 4)	R _{eja} R _{ejc}		°C / W			
Junction Temperature Range	TJ		°C			
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

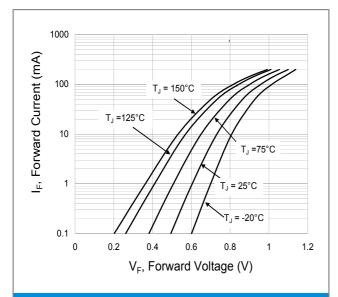
NOTE:

- 1. CJ at VR=0, f=1MHZ
- 2. From Ir=10mA to Ir=1mA, Vr=6Volts, RL=100 Ω
- 3. Mountde on minimum pad.
- 4. Mounted on 48 cm² PCB.









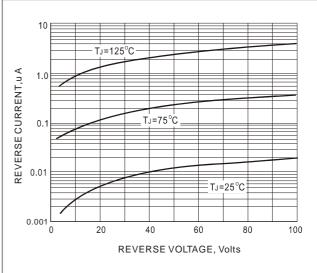
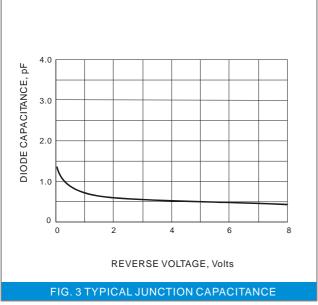
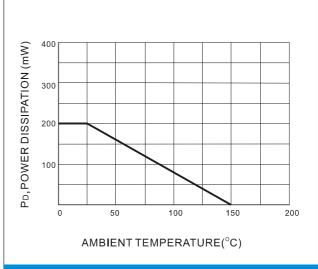


FIG. 1-TYPICAL FORWARD CHARACTERISTIC





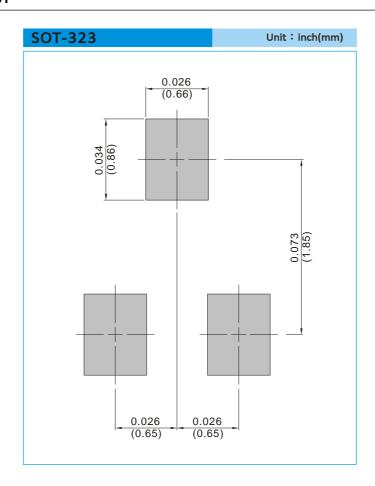


. 3 TYPICAL JUNCTION CAPACITANCE FIG. 4 POWER DERATING CURVE





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

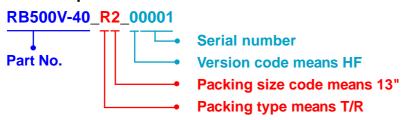




Part No_packing code_Version

BAW56W_R1_00001 BAW56W_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	Υ					
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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