



SURFACE MOUNT SWITCHING DIODES

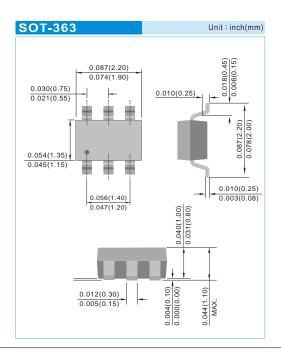
VOLTAGE 100 Volts POWER 200mWatts

FEATURES

- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- High Conductance
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.006gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

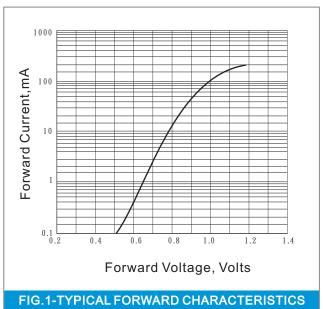
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAS16TW	BAW56DW	BAV70DW	BAV99S	UNITS
Marking Code	-	16T	JC	JA	JB	-
Reverse Voltage	V _R	75				
Peak Reverse Voltage	V _{RM}		V			
Rectified Current (Average),Half Wave Rectification With Resistive Load and f≥50Hz	I _o		mA			
Peak Forward Surge Current, 1.0μs	I _{FSM}		А			
Power Dissipation Derate Above 25°C	P _{TOT}	200				
Maximum Forward Voltage	V _F	0.715@I _F =0.001A 0.855@I _F =0.01A 1.0@I _F =0.05A 1.25@I _F =0.15A				
Maximum DC Reverse Current at 25V 75V	I _R		μА			
Maximum Junction Capacitance (Note 1)	CJ	1.5				
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0				
Typical Thermal Resistance	$R_{_{\theta JA}}$	625				
Operating Junction and Storage Temperature Range	$T_{J}T_{STG}$		°C			
Circuit Figure		Fig.48	Fig.51	Fig.52	Fig.32	

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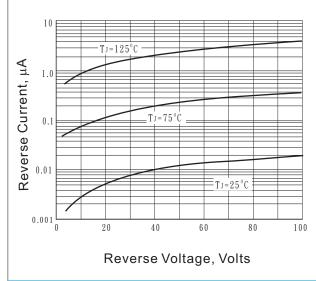


FIG.2-TYPICAL REVERSE CHARACTERISTICS

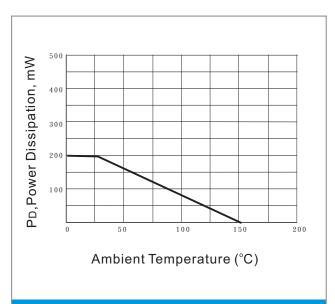


FIG.3-POWER DERATING CURVE

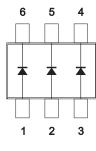


Fig.48

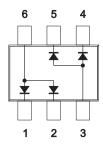


Fig.51

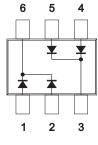


Fig.52

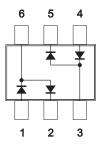


Fig.32

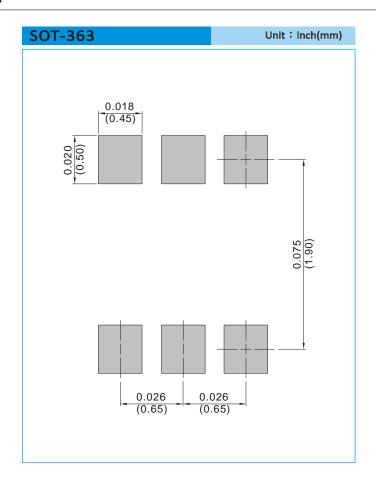
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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAS16TW_R1_00001 BAS16TW_R2_00001 BAS16TW_S1_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)	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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