



# BAS16VTB6

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 100 Volts **POWER** 200mWatts

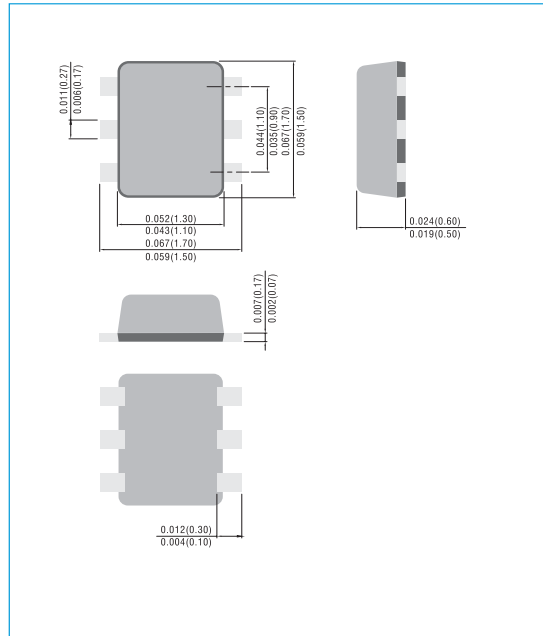
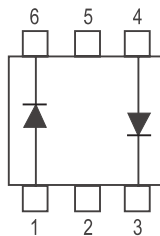
**SOT-563** Unit: inch ( mm )

### FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- High Conductance
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: SOT-563, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.003 gram
- Marking : TP



### MAXIMUM RATINGS

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

PARAMETER	SYMBOL	LIMITS	UNITS
Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Rectified Current (Average), Half Wave Rectification With Resistive Load and $f \geq 50\text{Hz}$	$I_O$	150	mA
Peak Forward Surge Current, 0.001ms	$I_{FSM}$	4	A
Power Dissipation Derate Above 25°C	$P_{TOT}$	200	mW
Maximum Junction Capacitance	$C_J$	1.5	pF
Maximum Reverse Recovery Time	$T_{RR}$	4	ns
Maximum Thermal Resistance	$R_{\theta JA}$	625	°C / W
Junction Temperature Range	$T_J$	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	LIMITS	UNITS
Maximum Forward Voltage	$V_F$	0.715@1mA 0.855@10mA 1@50mA 1.25@150mA	V
Maximum DC Reverse Current at 25V 75V	$I_R$	0.03 2.5	μA



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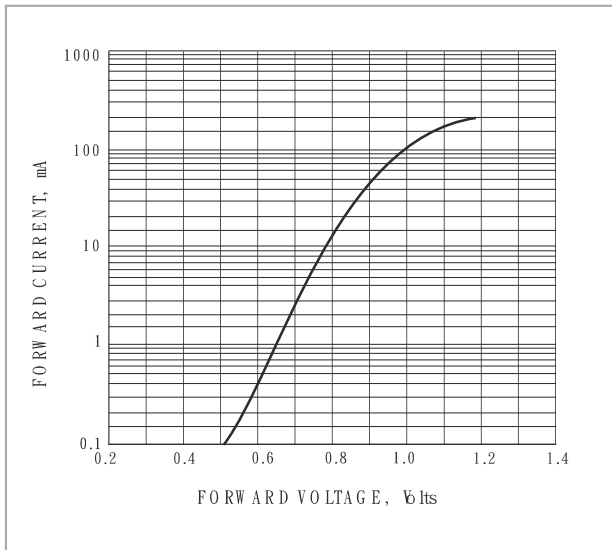


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

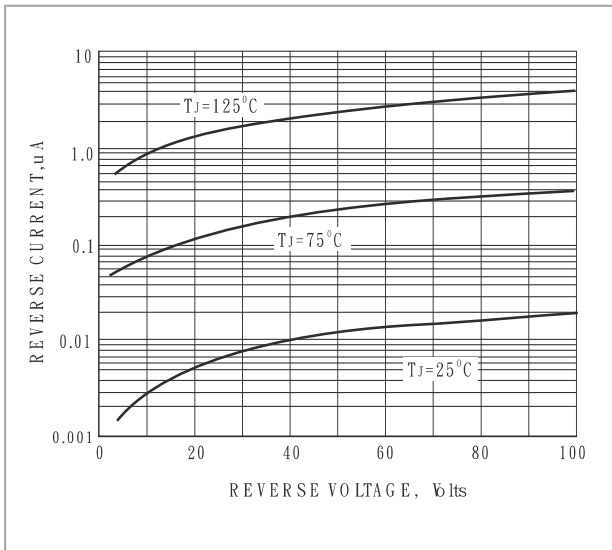


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

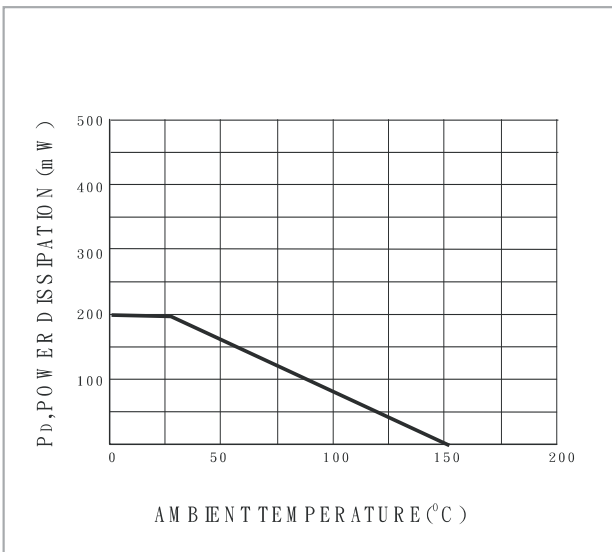
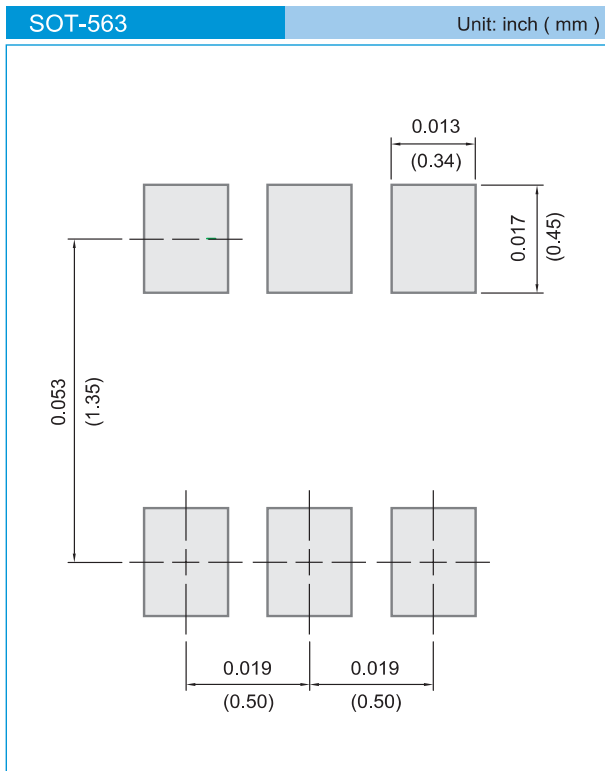


FIG. 3 POWER DERATING CURVE



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## MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information

T/R - 4K per 7" plastic Reel

T/R - 10K per 13" plastic Reel

### LEGAL STATEMENT

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