

# BAS16TS

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 100 Volt **POWER** 200 mWatt

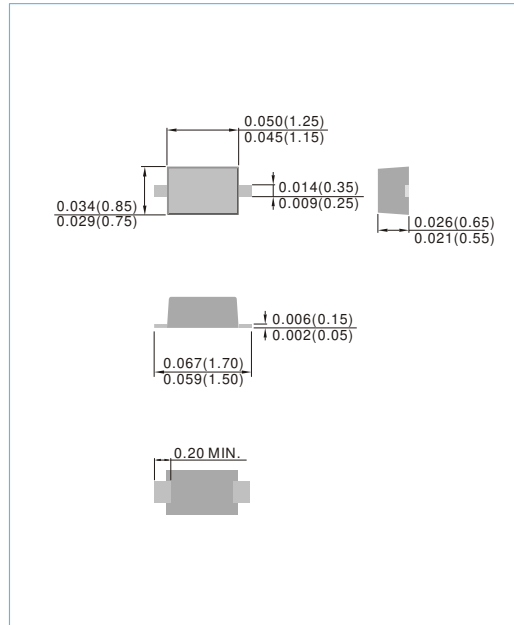
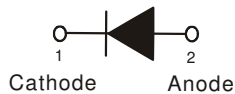
**SOD-523** Unit : inch(mm)

### 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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.00005 ounces, 0.0014grams
- Polarity: Color band denotes cathode end
- Standard packaging: 8mm tape



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code		A6	
Reverse Voltage	V <sub>R</sub>	75	V
Peak Reverse Voltage	V <sub>RM</sub>	100	V
RMS Voltage	V <sub>RMS</sub>	50	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	75	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	125	mA
Peak Forward Surge Current, 1μs	I <sub>FSM</sub>	4	A
Power Dissipation Derate Above 25°C	P <sub>TOT</sub>	200	mW
Maximum Forward Voltage	V <sub>F</sub>	0.855@0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	1@75V	μA
Junction Capacitance	C <sub>J</sub>	2	pF
Maximum Reverse Recovery	T <sub>RR</sub>	6	ns
Typical Thermal Resistance	R <sub>θJA</sub>	833	°C / W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub>	-55 to +150	°C

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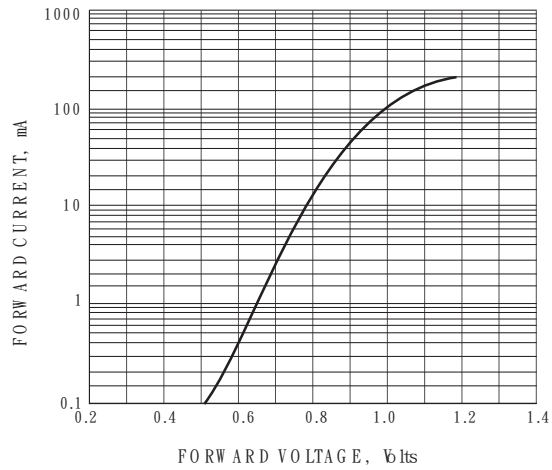


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

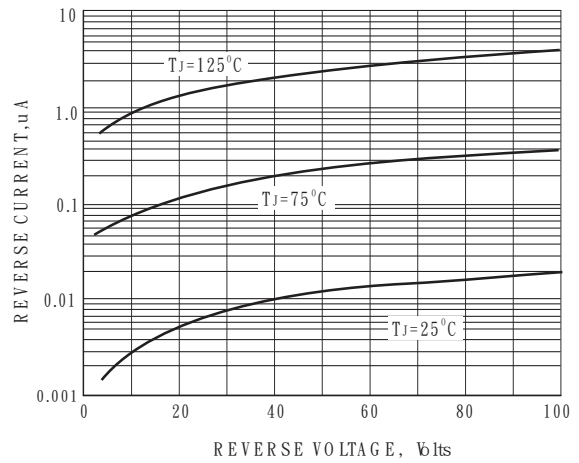


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

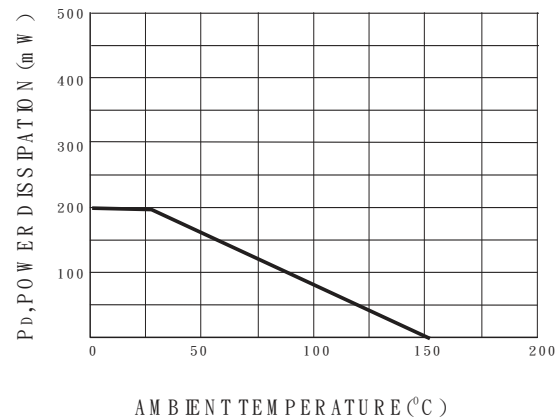


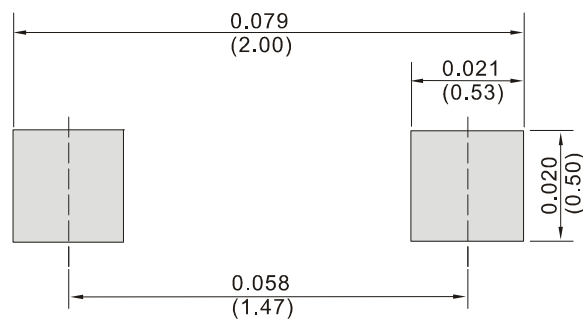
FIG. 3 POWER DERATING CURVE

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## MOUNTING PAD LAYOUT

SOD-523

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

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## Part No\_packing code\_Version

BAS16TS\_R1\_00001

BAS16TS\_R2\_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 <b>XX</b>				Version Code <b>XXXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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