



BAS16TS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200mWatts

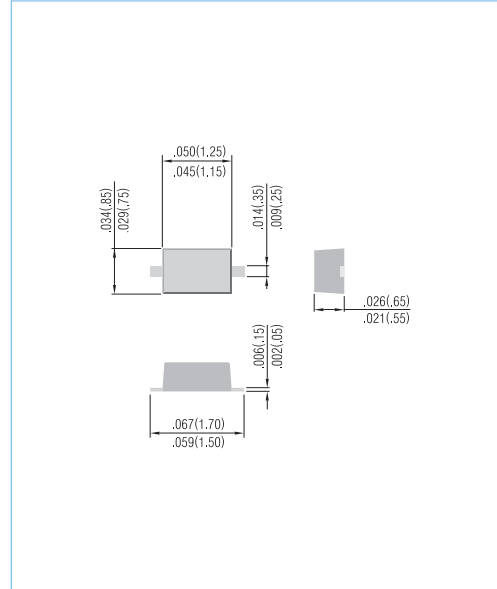
SOD-523 Unit: inch (mm)

FEATURES

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

MECHANICAL DATA

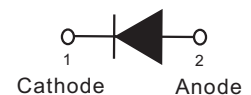
Case: SOD-523, Plastic
 Terminals: Solderable per MIL-STD-750, Method 2026
 Standard packaging: 8mm tape
 Weight: approximately 0.002gram
 Polarity : Color band cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BAS16TS	UNITS
Marking Code		A6	
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
RMS Voltage	V_{RMS}	50	V
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current at $T_a=25^\circ\text{C}$	$I_{F(AV)}$	125	mA
Peak Forward Surge Current, 1.0us	I_{FSM}		A
Power Dissipation Derate Above 25°C	P_{TOT}	200	mW
Maximum Forward Voltage	V_F	0.855 @ 0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$	I_R	1.0 @ 75V	uA
Junction Capacitance	C_J	2.0	pF
Maximum Reverse Recovery	T_{RR}	6.0	ns
a Thermal Resistance	$R_{\theta JA}$	833	°C / W
Storage Temperature Range	T_J	-55 to +150	°C





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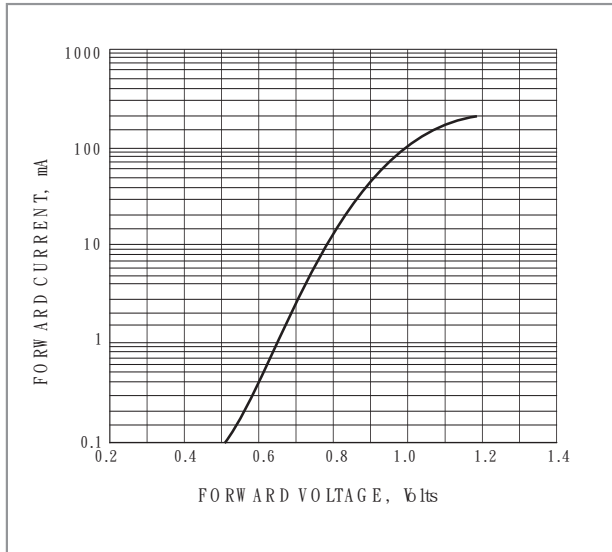


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

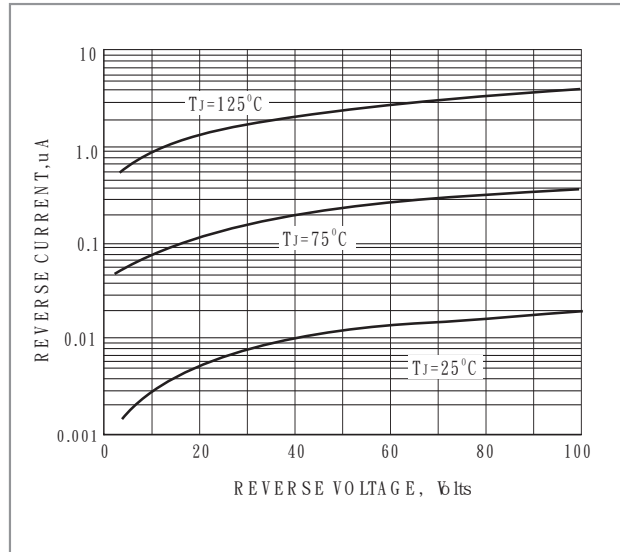


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

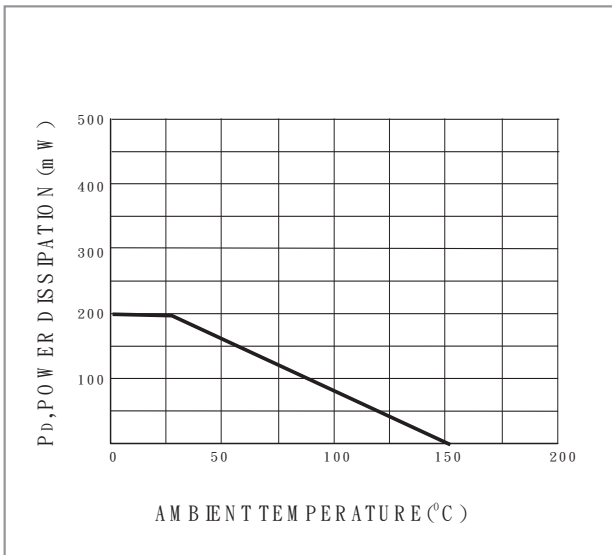


FIG. 3 POWER DERATING CURVE

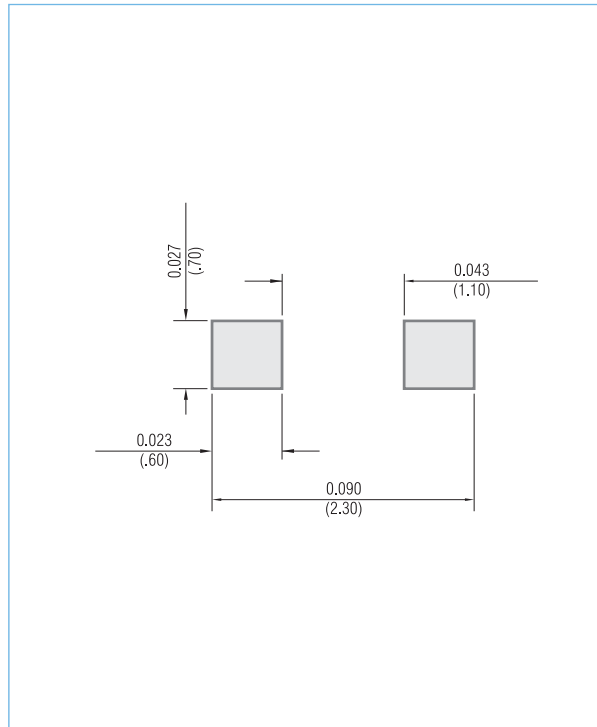


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MOUNTING PAD LAYOUT

SOD-523

Unit: inch (mm)



ORDER INFORMATION

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

LEGAL STATEMENT

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