



BAS16T

Surface Mount Switching Diodes
Voltage 100 Volts Power 200 mWatts

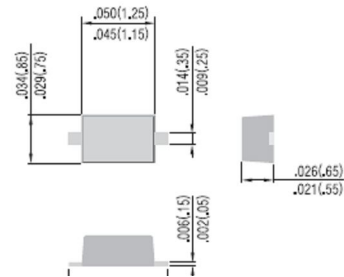
FEATURES

- 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
- Approx. weight: 0.002 grams
- Standard packaging: 8mm tape
- Polarity: Color band cathode

SOD-523

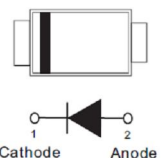


Unit: inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BAS16T	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}	4.0	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
Typical Thermal Resistance	$R_{\theta JA}$	833	°C / W
Storage Temperature Range	T_J	-55 to +150	°C



Characteristic and Rating Curve

Fig.1 Typical Forward Characteristic

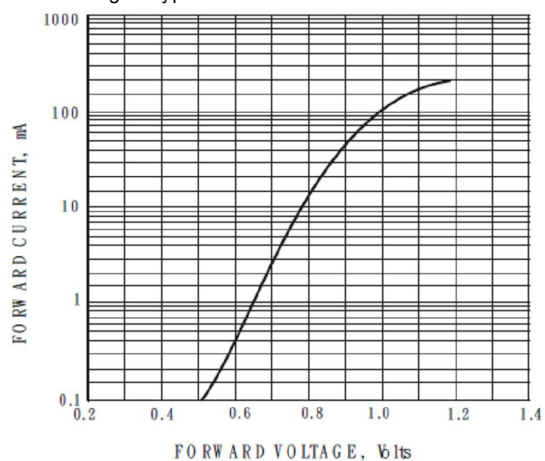


Fig.2 Typical Reverse Characteristic

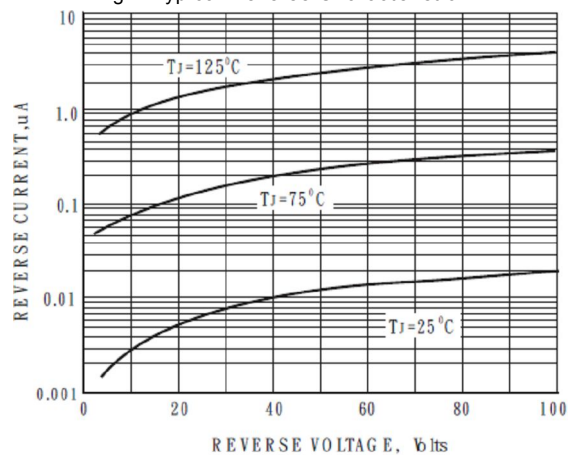


Fig.3 Power Derating Curve

