

BAS16W-AU

SURFACE MOUNT SWITCHING DIODES

VOLTAGE	100 Volt	POWER	200mWatt
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SOT-323 Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

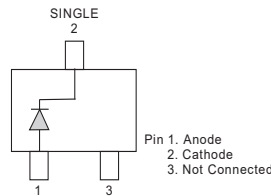
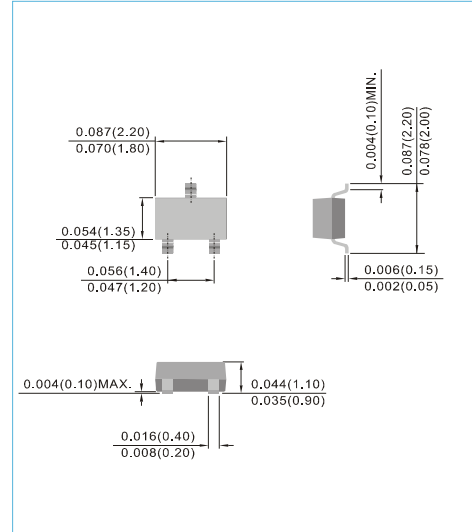
MECHANICAL DATA

Case : SOT-323 plastic case.

Terminals : Solderable per MIL-STD-750, Method 2026

Standard packaging : 8mm tape

Approx weight : 0.005 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	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°C	I _{AV}	150	mA
Peak Forward Surge Current, 1μs	I _{FSM}	4	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°C	I _R	1@75V	μA
Junction Capacitance (Note1)	C _J	2	pF
Maximum Reverse Recovery (Note2)	T _{RR}	6	ns
Typical Thermal Resistance	R _{θJA}	640	°C / W
Operation and Storage Temperature Range	T _J	-55 to +150	°C

NOTE :

1. C_J at V_R=0, f=1MHZ

2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

BAS16W-AU

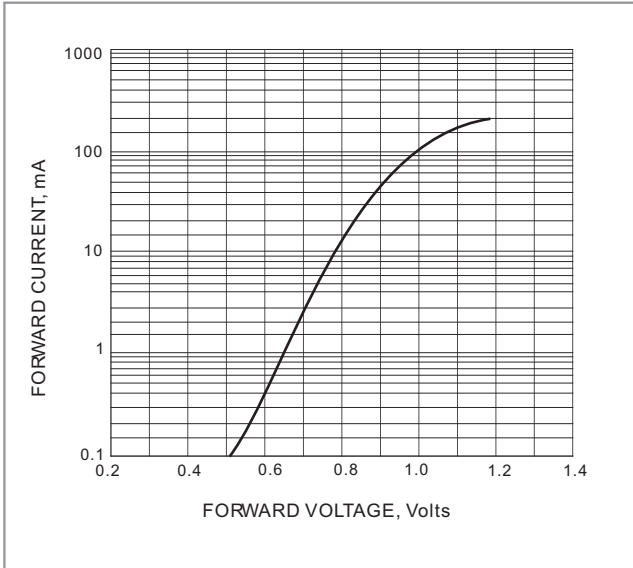


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

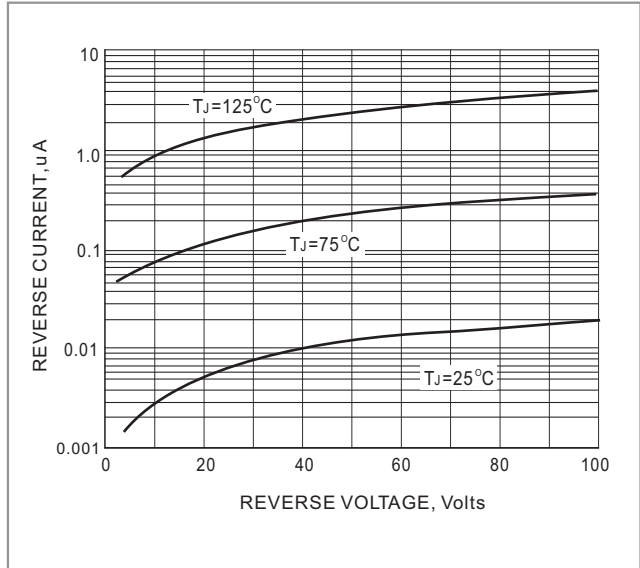


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

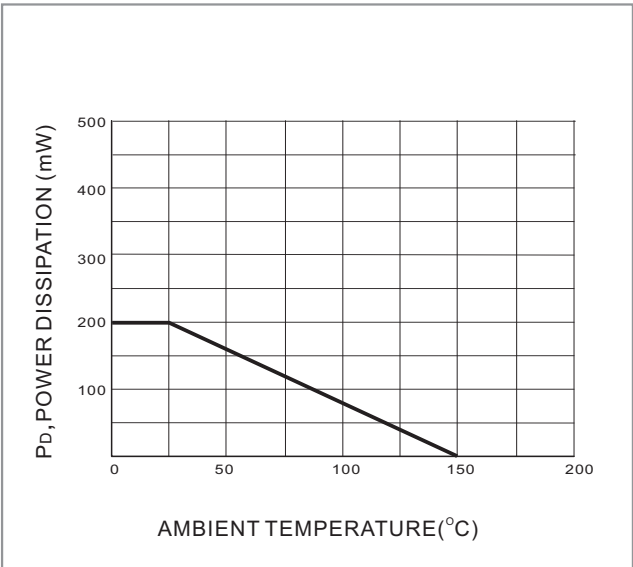


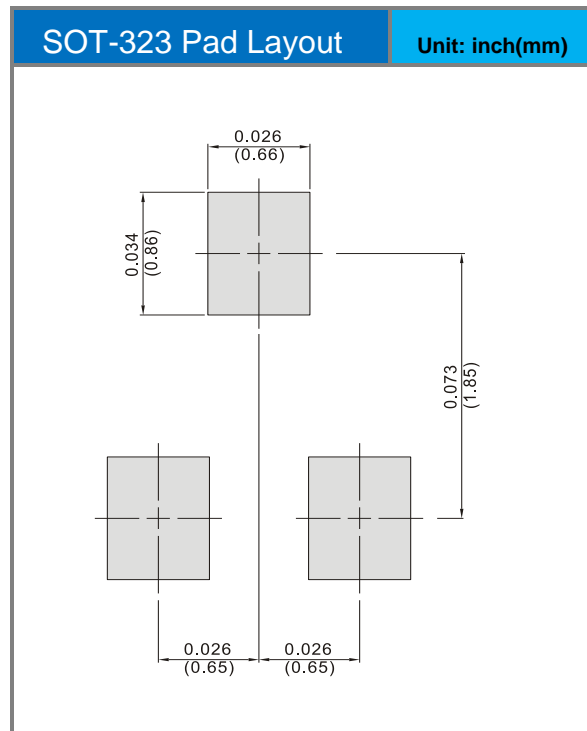
FIG. 3 POWER DERATING CURVE

BAS16W-AU

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAS16W-AU	SOT-323	3K pcs / 7" reel	A6
BAS16W-AU	SOT-323	12K pcs / 13" reel	A6

Mounting Pad Layout



BAS16W-AU

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