



DATA SHEET

BAS19W~BAS21W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120-250 Volts **POWER** 200mWatts

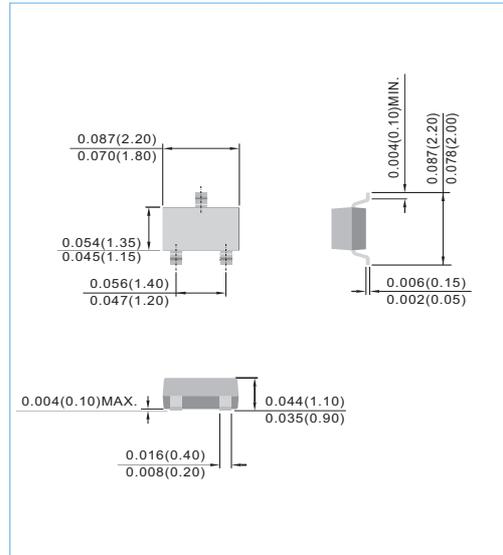
SOT-323 Unit : inch(mm)

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- AS 200W [P U C E C J I D O A a a c a * E A
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MECHANICAL DATA

Case: SOT-323, Plastic
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 0.001 gram



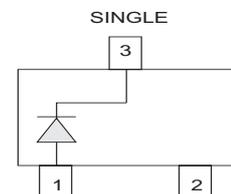
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

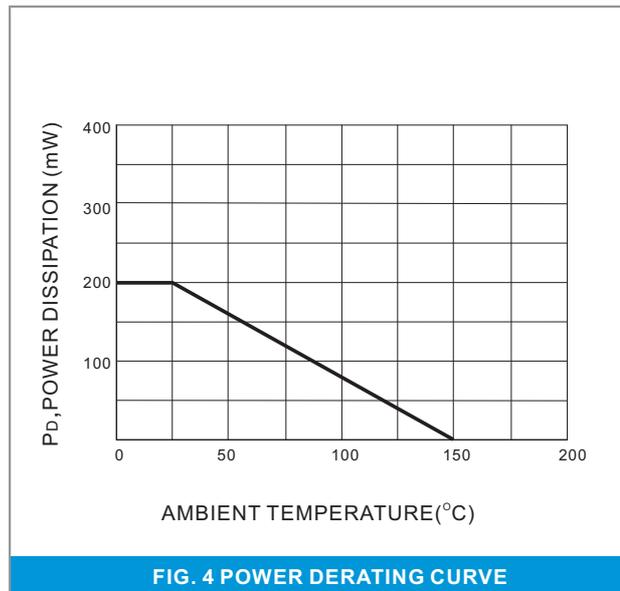
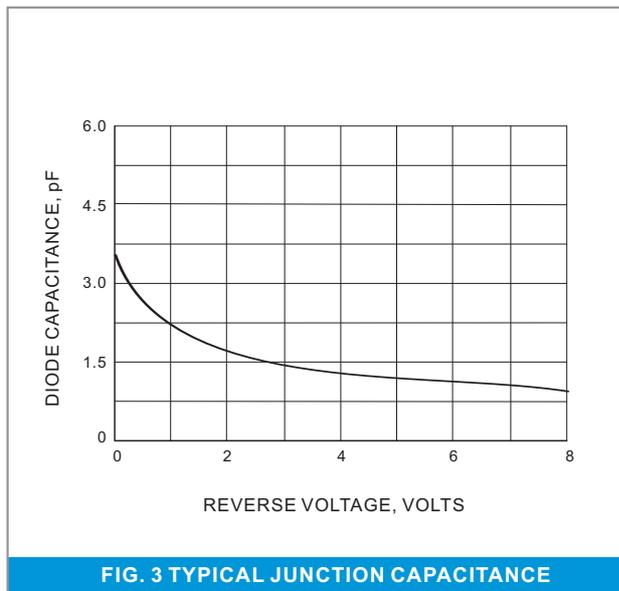
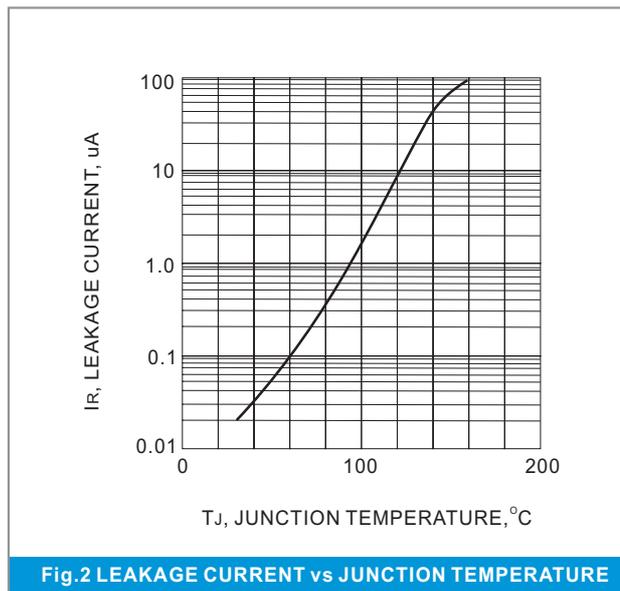
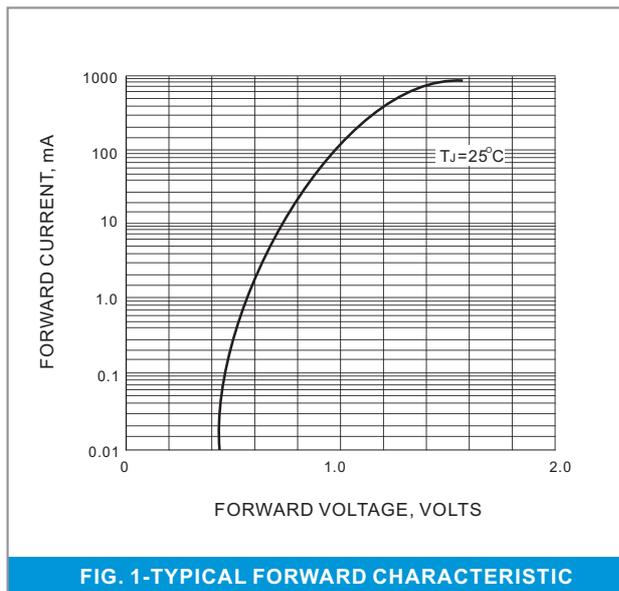
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAS19W	BAS20W	BAS21W	UNITS
Marking Code		A 8	A 80	A 82	
Reverse Voltage	V _R	100	150	200	V
Peak Reverse Voltage	V _{RM}	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >= 50 Hz	I _D	200			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 at 0.1A	V _F	1.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.1			uA
Typical Junction Capacitance (Notes1)	C _J	5.0			pF
Maximum Reverse Recovery (Notes2)	T _{RR}	50			ns
Typical Thermal Resistance	R _{θJA}	625			°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150			°C

NOTE:

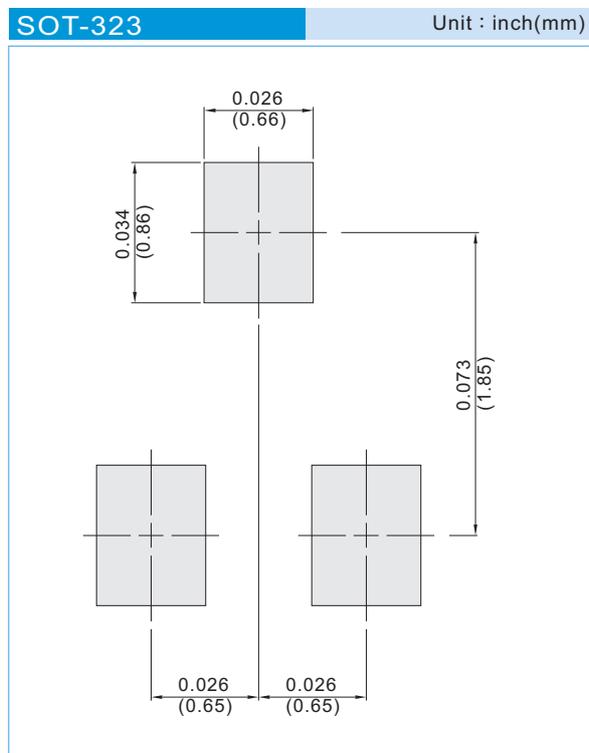
1. C_J at V_R=0, f=1MHz
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω







MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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