



DATA SHEET

BAS19W~BAS21W

SURFACE MOUNT SWITCHING DIODES

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

FEATURES

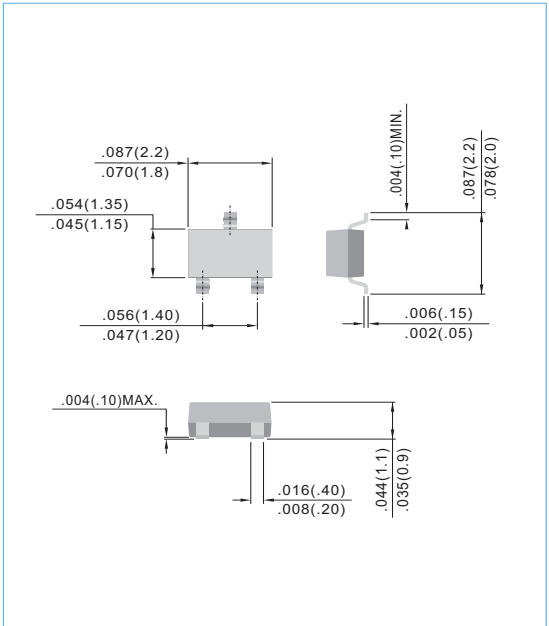
- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-323, Plastic
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 0.0048 gram

SOT-323

Unit: inch (mm)



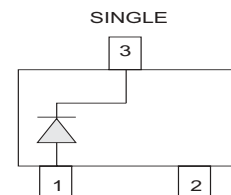
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

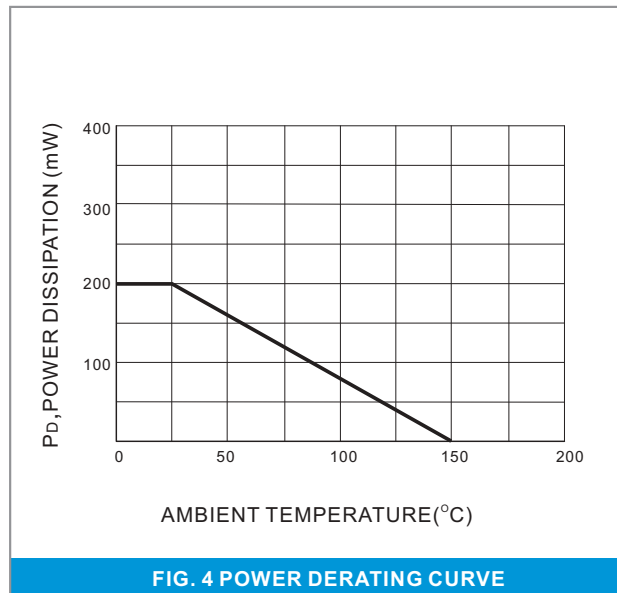
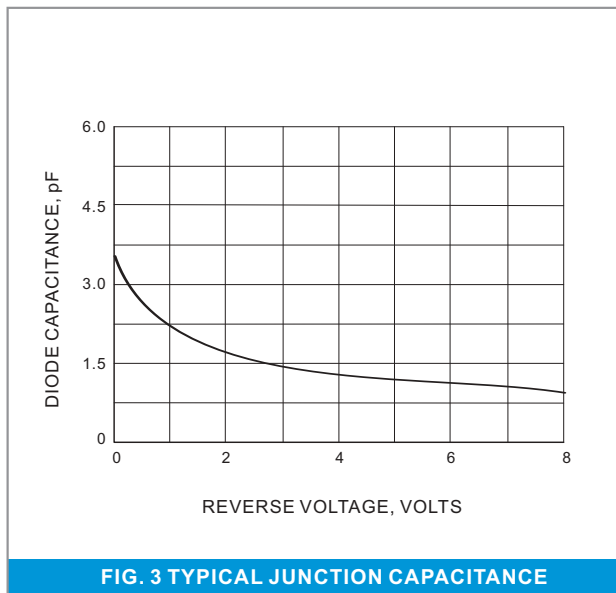
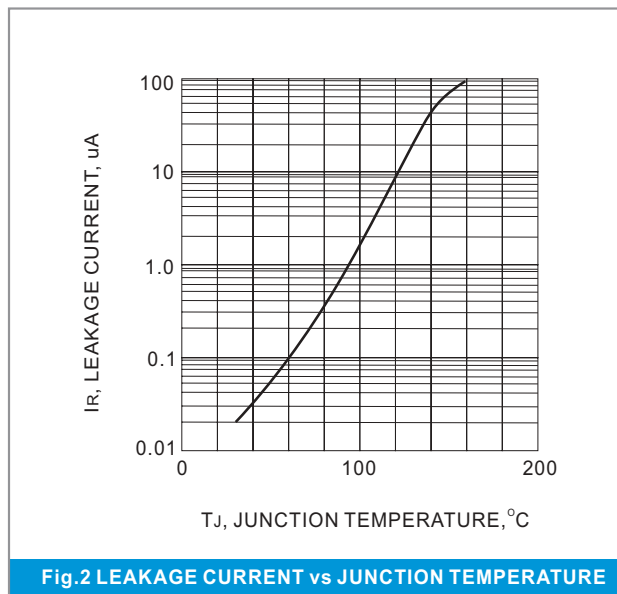
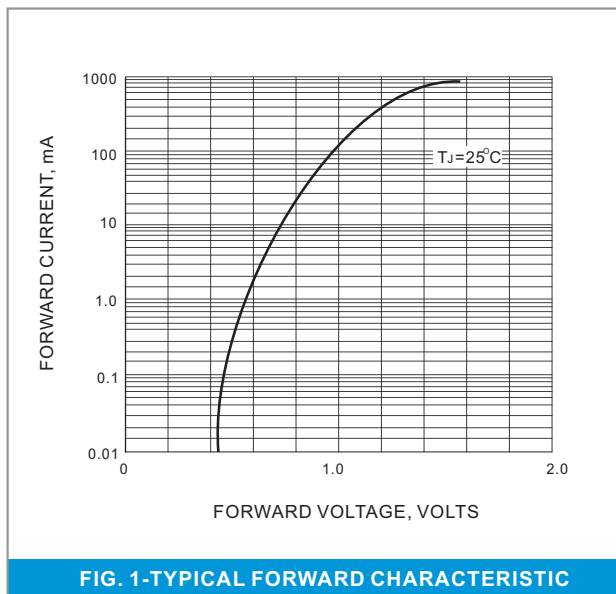
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	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 $f \geq 50$ 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 $T_J = 25^\circ C$	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	$R_{\theta JA}$	625			°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150			°C

NOTE:

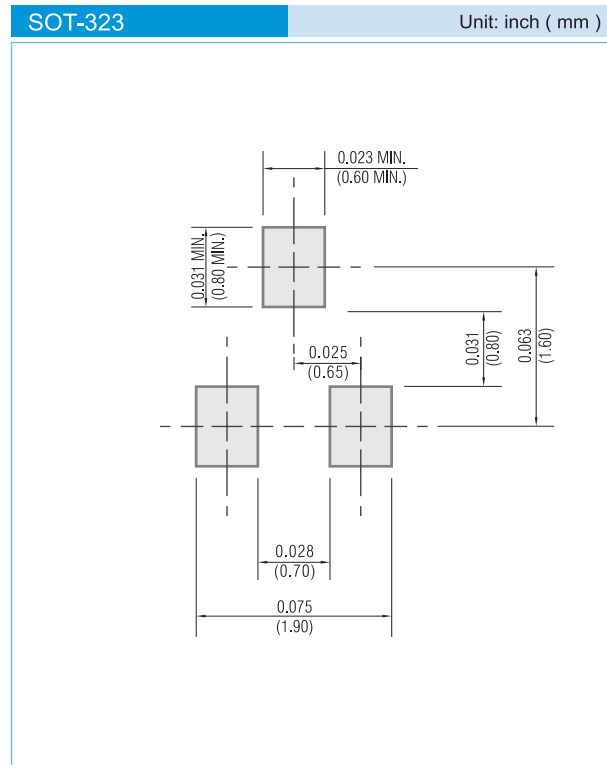
1. C_J at $V_R=0, f=1MHz$
2. From $I_F=10mA$ to $I_R=1mA, V_R=6Volts, R_L=100\Omega$







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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