



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 75-200 Volts POWER 350 mWatts

PACKAGE SOT-23

FEATURES

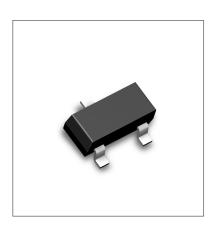
- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance

MECHANICAL DATA

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram Marking: A6, A8, A80, A82



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

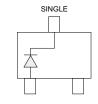
For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAS16	BAS19	BAS20	BAS21	UNITS
Reverse Voltage	VR	75	100	150	200	V
Peak Reverse Voltage	VRM	100	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	lo	250	200	200	200	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I FSM	2	2.5	2.5	2.5	А
Power Dissipation Derate Above 25°C	Ртот	350	350	350	350	mW
Maximum Forward Voltage @ IF=10mA @ IF=100mA	VF	0.855 -	- 1.0	- 1.0	- 1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{J} \! = \! 25^{\circ} \! C$	I R	1	0.1	0.1	0.1	μА
Typical Junction Capacitance(Notes1)	CJ	2	1.5	1.5	1.5	pF
Maximum Reverse Recovery (Notes2)	TRR	6	50	50	50	ns
Maximum Thermal Resistance	RθJA	357				°C / W
Storage Temperature Range	TJ	-55 TO +125				°C

NOTE:

1. CJ at VR=0, f=1MHZ

2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω



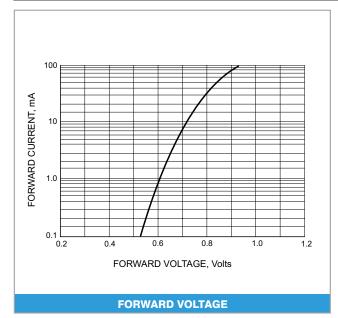
BAS16, BAS19, BAS20, BAS21

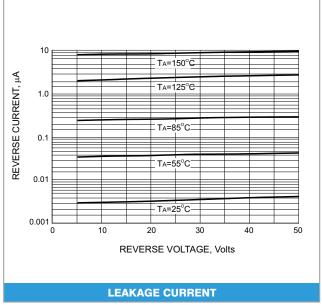
Part Number: BAS16, BAS19, BAS20, BAS21

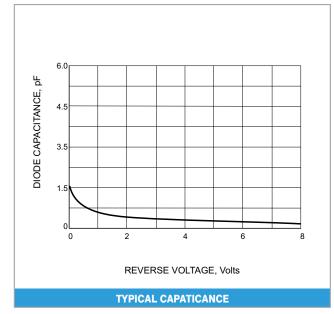


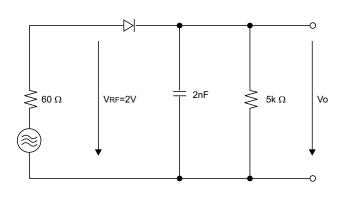
RATING and CHARACTERISTIC CURVES











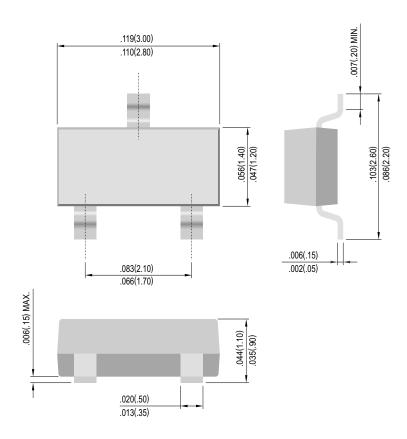
RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT

Part Number: BAS16, BAS19, BAS20, BAS21





SOT-23



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