BAS70 / -04 / -05 / -06

Surface Mount Schottky Barrier Diode

Voltage Range
70 Volts
200m Watts Power Dissipation

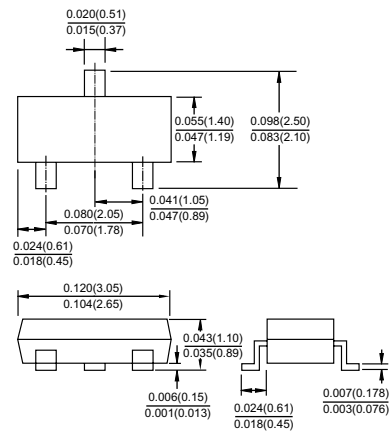
Features

- ✧ Low turn-on voltage
- ✧ Fast switching
- ✧ PN junction guard Ring for transient and ESD protection

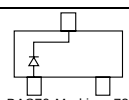
Mechanical Data

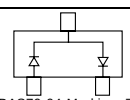
- ✧ Case: SOT-23, Molded plastic
- ✧ Terminals: Solderable per MIIL-STD-202, Method 208
- ✧ Marking & Polarity: See diagram
- ✧ Weight: 0.008 grams

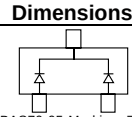
SOT-23

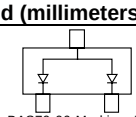


Dimensions in inches and (millimeters)


BAS70 Marking: 73


BAS70-04 Marking: 74


BAS70-05 Marking: 75


BAS70-06 Marking: 76

Maximum Ratings TA=25℃ unless otherwise specified

Type Number	Symbol	BAS70	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	70	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	V
Forward Continuous Current (Note 1)	I_F	70	mA
Non-Repetitive Peak Forward Surge Current @ t ≦1.0s	I_{FSM}	100	mA
Power Dissipation (Note 1)	Pd	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625	K/W
Operating Junction Temperature Range	T_J	-55 to + 125	^{O}C
Storage Temperature Range	T_{STG}	-65 to + 150	^{O}C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage (Note 2), IR=10uA	$V_{(BR)}$	70		
Reverse Leakage Current tp<300us, VR=50V	I_R	--	100	nA
Forward Voltage Drop tp300us, IF=1.0mA tp<300us, IF=15mA	V_F	--	410 1000	mV
Junction Capacitance VR=0, f=1.0MHz	Cj	-	2.0	pF
Reverse Recovery Time (Note 3)	trr	--	5.0	nS

Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.
2. Test Period < 3000uS.
3. Reverse Recovery Test Conditions: I_F=I_R=10mA, I_R=1.0mA, R_L=100Ω.

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