

Schottky Barrier Diodes BAS70L

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

Features

- Extremely Fast Switching Speed
- Low Forward Voltage
- NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC—Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

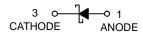
MAXIMUM RATINGS (T_J = 150°C unless otherwise noted)

Rating	Symbol	Value	Unit
Forward Current	I _F	70	mA
Non Repetitive Peak Forward Surge Current (t ≤ 1.0 s)	I _{FSM}	100	mA
Reverse Voltage	V_{R}		

 $R_{\theta JA}$

 T_J , T_{stg}

70 VOLTS SCHOTTKY BARRIER DIODES





SOT-23 (TO-236) CASE 318 STYLE 8

MARKING DIAGRAM



BE Specific Device Code

M = Date Code*

= Pb Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or overbar may vary depending upon manufacturing location.

ORDERING INFORMATION

Device	Package	Shipping [†]
BAS70LT1G	SOT 23 (Pb Free)	3,000 / Tape & Reel
NSVBAS70LT1G	SOT 23 (Pb Free)	3,000 / Tape & Reel

- 1. FR 4 @ minimum pad.
- 2. FR 4 @ 1.0 x 1.0 in pad.

°C/W

٥С

508 311

55 to

+150

Operating Junction and Storage Temperature Range

BAS70L

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I _R = 10 μA)	V _{(BR)R}	70		V
Total Capacitance (V _R = 0 V, f = 1.0 MHz)	СТ		2.0	



SOT 23 (TO 236) 2.90x1.30x1.00 1.90P CASE 318 ISSUE AU

DATE 14 AUG 2024

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	STYLE 6: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 7: PIN 1. EMITTER 2. BASE 3. COLLECTOR	STYLE 8: PIN 1. ANODE 2. NO CONNECTION 3. CATHODE	ı
STYLE 9: PIN 1. ANODE 2. ANODE 3. CATHODE	STYLE 10: PIN 1. DRAIN 2. SOURCE 3. GATE	STYLE 11: PIN 1. ANODE 2. CATHODE 3. CATHODE-ANODE	STYLE 12: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 13: STYLE 14: PIN 1. SOURCE PIN 1. CATHODE 2. DRAIN 2. GATE 3. GATE 3. ANODE
STYLE 15: PIN 1. GATE 2. CATHODE 3. ANODE	STYLE 16: PIN 1. ANODE 2. CATHODE 3. CATHODE	STYLE 17: PIN 1. NO CONNECTION 2. ANODE 3. CATHODE	STYLE 18: PIN 1. NO CONNECTION 2. CATHODE 3. ANODE	STYLE 19: I PIN 1. CATHODE 2. ANODE 3. CATHODE–ANODE
	STYLE 22: PIN 1. RETURN 2. OUTPUT 3. INPUT	STYLE 23: PIN 1. ANODE 2. ANODE 3. CATHODE 3.		

