

### BAS70-AU~BAS70S-AU SURFACE MOUNT SCHOTTKY DIODES Voltage 70 V Current 0.2 A Features • Fast switching speed • Surface mount package ideally suited for automatic

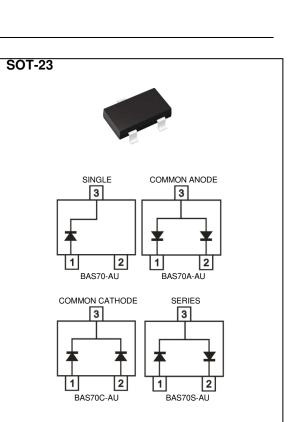
- High conductor
- Lead free in compliance with EU RoHS 2.0

insertion electrical identical standard JEDEC

- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

#### **Mechanical Data**

- Case: SOT-23 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams



### **Maximum Ratings and Thermal Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	70	V
Maximum Rms Voltage	V <sub>RMS</sub>	49	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	70	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	0.2	А
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	0.6	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$	CJ	2	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	350	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C





## BAS70-AU~BAS70S-AU

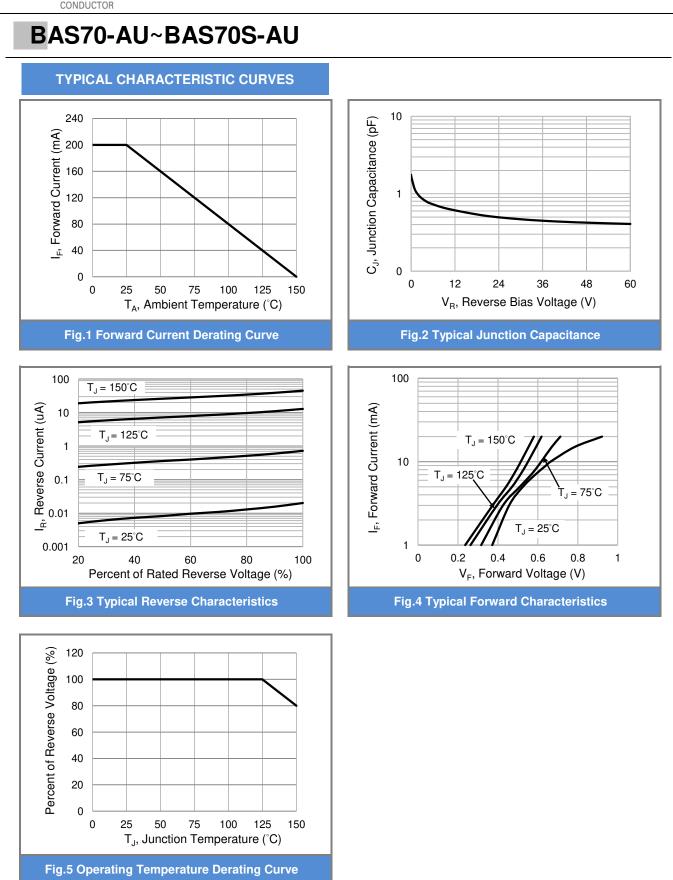
<b>Electrical Characteristics</b> (T <sub>A</sub> = 2	$25^{\circ}$ C unless otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1 mA, T <sub>J</sub> = 25 °C	-	-	0.41	V
		$I_F = 10 \text{ mA},  \text{T}_J = 25 ^{\circ}\text{C}$	-	-	0.75	
		I <sub>F</sub> = 15 mA, T <sub>J</sub> = 25 °C	-	-	0.9	
		I <sub>F</sub> = 1 mA, T <sub>J</sub> = 125 °C	-	0.26	-	
		I <sub>F</sub> = 10 mA, T <sub>J</sub> = 125 °C	-	0.55	-	
		$I_F = 15 \text{ mA}, T_J = 125 \degree \text{C}$	-	0.59	-	
Reverse Current	$I_{R}^{(2)}$	$V_{R} = 50 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	0.1	uA
		$V_{R} = 70 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	1	
		$V_{R} = 70 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	45	-	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Short duration pulse test used to minimize self-heating effect





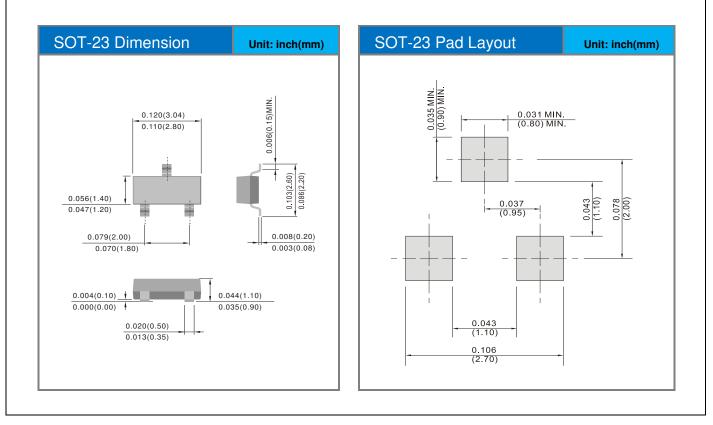


# BAS70-AU~BAS70S-AU

#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS70-AU_R1_000A1	SOT-23	3K / 7" Reel	A70	Halogen free
BAS70A-AU_R1_000A1	SOT-23	3K / 7" Reel	A72	Halogen free
BAS70C-AU_R1_000A1	SOT-23	3K / 7" Reel	A73	Halogen free
BAS70S-AU_R1_000A1	SOT-23	3K / 7" Reel	A74	Halogen free

### Packaging Information & Mounting Pad Layout







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