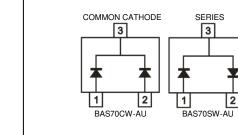


BAS70W-AU~BAS70SW-AU SURFACE MOUNT SCHOTTKY DIODES SOT-323 Voltage 70 V Current 0.2 A Features Fast switching speed • Surface mount package ideally suited for automatic insertion electrical identical standard JEDEC SINGLE COMMON ANODE 3 3 • High conductor Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard 2 • AEC-Q101 qualified 1 BAS70W-AU BAS70AW-AL COMMON CATHODE SERIES **Mechanical Data** 3 3 • Case: SOT-323 Package • Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0002 ounces, 0.005 grams



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	70	V
Maximum Rms Voltage	V _{RMS}	49	V
Maximum Dc Blocking Voltage	V _{DC}	70	V
Maximum Average Forward Current	I _{F(AV)}	0.2	А
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	0.6	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{B} = 0 V$	CJ	2	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	556	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



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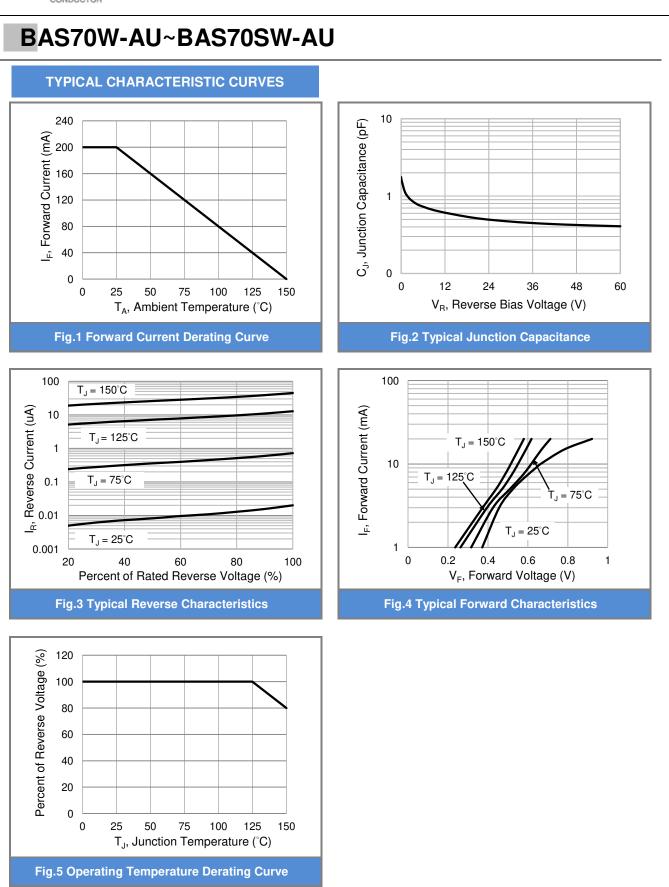
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 1 \text{ mA}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.41	V
		$I_F = 10 \text{ mA}, T_J = 25 \degree C$	-	-	0.75	
		$I_F = 15 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.9	
		I _F = 1 mA, T _J = 125 °C	-	0.26	-	
		I _F = 10 mA, T _J = 125 °C	-	0.55	-	
		I _F = 15 mA, T _J = 125 °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





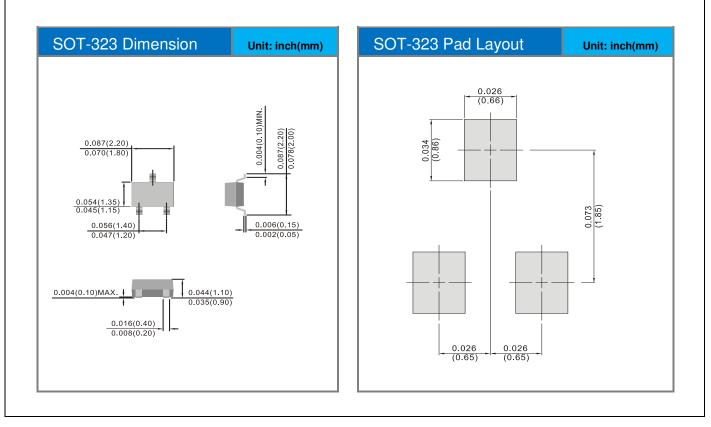


BAS70W-AU~BAS70SW-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS70W-AU_R1_000A1	SOT-323	3K / 7" Reel	A70	Halogen free
BAS70AW-AU_R1_000A1	SOT-323	3K / 7" Reel	A72	Halogen free
BAS70CW-AU_R1_000A1	SOT-323	3K / 7" Reel	A73	Halogen free
BAS70SW-AU_R1_000A1	SOT-323	3K / 7" Reel	A74	Halogen free

Packaging Information & Mounting Pad Layout







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