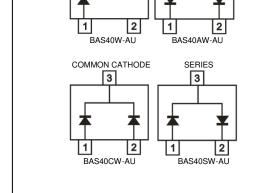


BAS40W-AU~BAS40SW-AU SURFACE MOUNT SCHOTTKY DIODES SOT-323 Voltage 40 V Current 0.2 A Features Fast switching speed • Surface mount package ideally suited for automatic insertion electrical identical standard JEDEC SINGLE COMMON ANODE 3 3 • High conductor Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard 2 • AEC-Q101 qualified 1 BAS40W-AU 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}	40	V
Maximum Rms Voltage	V _{RMS}	28	V
Maximum Dc Blocking Voltage	V _{DC}	40	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
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_{B} = 0 V$	CJ	5	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	540	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



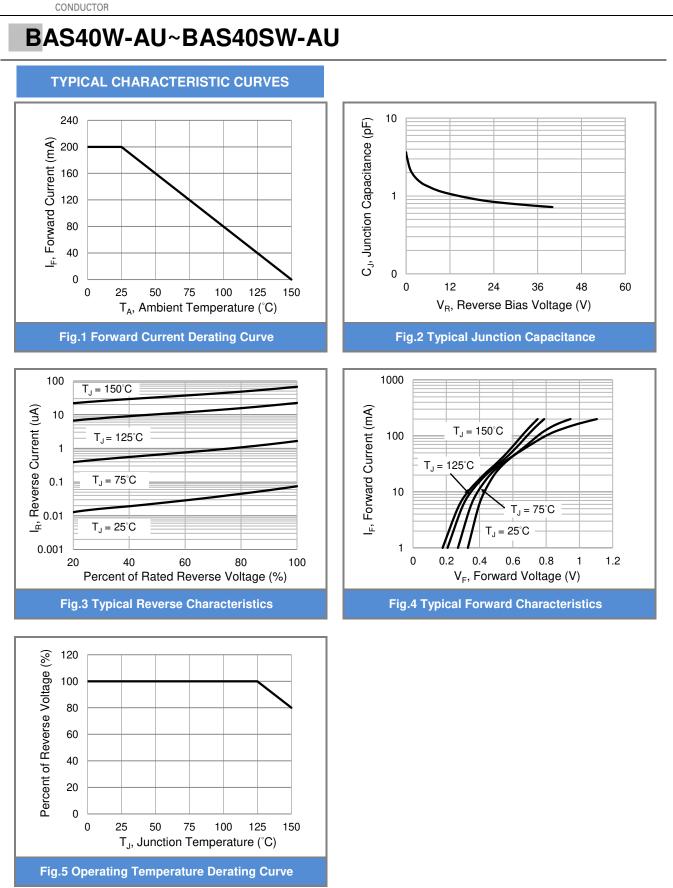
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 1 mA, T _J = 25 °C	-	-	0.38	V
		I _F = 10 mA, T _J = 25 °C	-	-	0.50	
		$I_F = 40 \text{ mA}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	1	
		I _F = 1 mA, T _J = 125 °C	-	0.21	-	
		I _F = 10 mA, T _J = 125 °C	-	0.35	-	
		I _F = 40 mA, T _J = 125 °C	-	0.55	-	
Reverse Current	۱ _R ⁽²⁾	$V_{R} = 30 V, T_{J} = 25 °C$	-	-	0.5	uA
		$V_{R} = 40 V, T_{J} = 25 °C$	-	-	1	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	22	-	

NOTES:

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





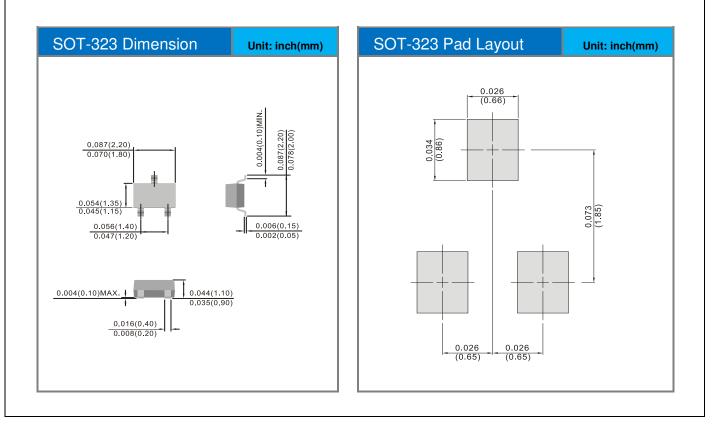


BAS40W-AU~BAS40SW-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS40W-AU_R1_000A1	SOT-323	3K / 7" Reel	S40	Halogen free
BAS40AW-AU_R1_000A1	SOT-323	3K / 7" Reel	S42	Halogen free
BAS40CW-AU_R1_000A1	SOT-323	3K / 7" Reel	S43	Halogen free
BAS40SW-AU_R1_000A1	SOT-323	3K / 7" Reel	S44	Halogen free

Packaging Information & Mounting Pad Layout







BAS40W-AU~BAS40SW-AU

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