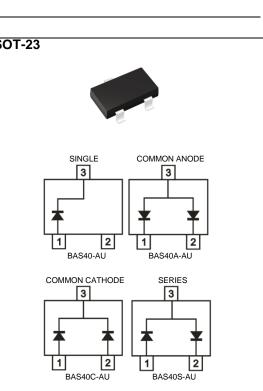


BAS40-AU~BAS40S-AU SURFACE MOUNT SCHOTTKY DIODES Voltage 40 V Current 0.2 A Features • Fast switching speed • Surface mount package ideally suited for automatic insertion electrical identical standard JEDEC • High conductor • Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 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 _{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	A
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 $V_R = 0 V$	CJ	5	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	350	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





BAS40-AU~BAS40S-AU

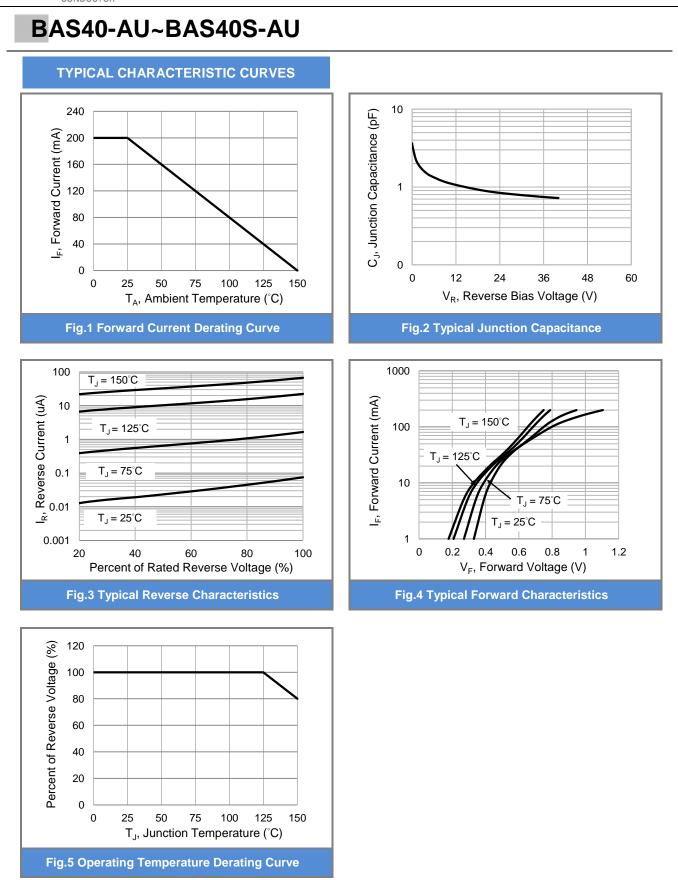
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

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





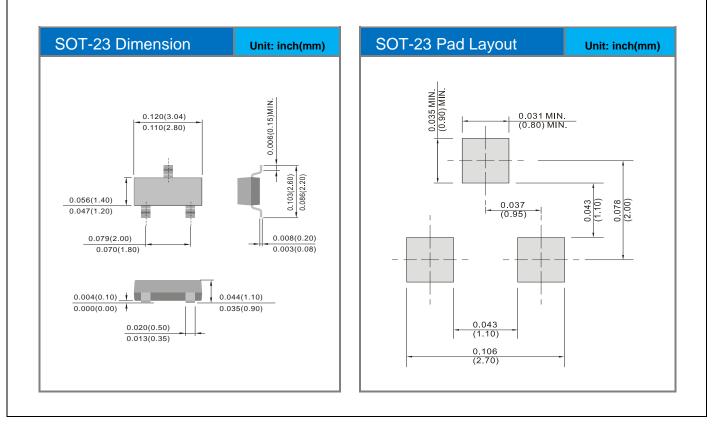


BAS40-AU~BAS40S-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS40-AU_R1_000A1	SOT-23	3K / 7" Reel	S40	Halogen free
BAS40A-AU_R1_000A1	SOT-23	3K / 7" Reel	S42	Halogen free
BAS40C-AU_R1_000A1	SOT-23	3K / 7" Reel	S43	Halogen free
BAS40S-AU_R1_000A1	SOT-23	3K / 7" Reel	S44	Halogen free

Packaging Information & Mounting Pad Layout







BAS40-AU~BAS40S-AU

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