



SURFACE MOUNT SCHOTTKY DIODES

Voltage 40 V Current 0.2 A

Features

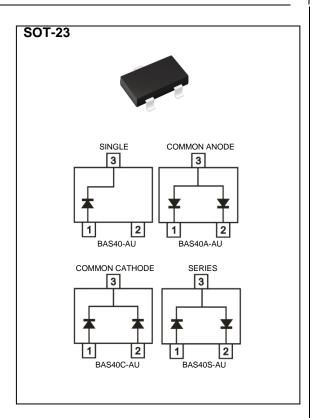
- Fast switching speed
- Surface mount package ideally suited for automatic insertion electrical identical standard JEDEC
- High conductor
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

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°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	Α
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	0.6	Α
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 \text{ V}$	C₁	5	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	350	°C/W
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

December 14,2018-REV.04





Electrical Characteristics (T_A = 25°C unless otherwise noted)

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





TYPICAL CHARACTERISTIC CURVES

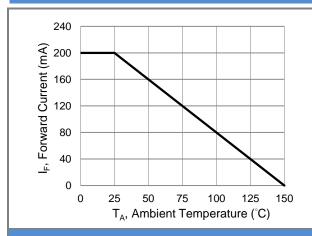


Fig.1 Forward Current Derating Curve

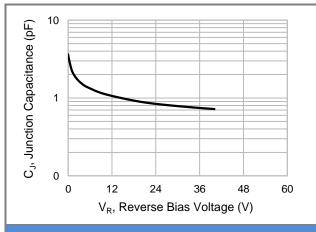


Fig.2 Typical Junction Capacitance

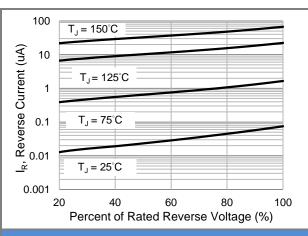


Fig.3 Typical Reverse Characteristics

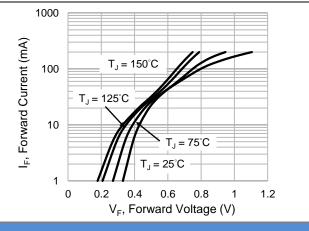


Fig.4 Typical Forward Characteristics

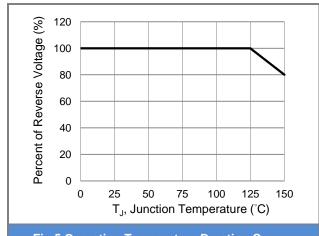


Fig.5 Operating Temperature Derating Curve

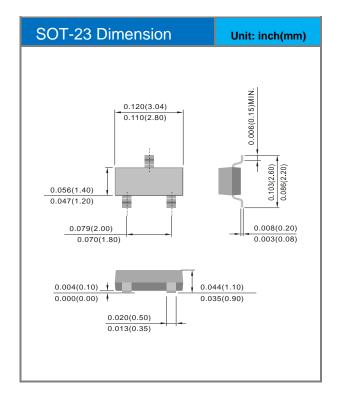


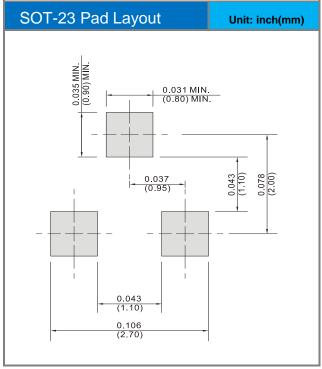


Part No Packing Code Version

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









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