



SURFACE MOUNT SCHOTTKY DIODES

Voltage 30 V Current 0.2 A

Features

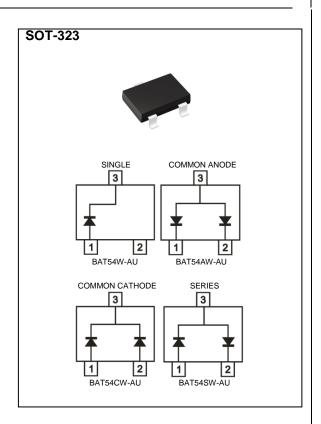
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

• 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 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum Rms Voltage	V_{RMS}	21	V
Maximum Dc Blocking Voltage	V_{DC}	30	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
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 1 \text{ V}$	CJ	10	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	540	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 1 \text{ mA}, T_J = 25 ^{\circ}\text{C}$	ı	ı	0.32	V
		$I_F = 100 \text{ mA}, T_J = 25 ^{\circ}\text{C}$	-	-	0.60	
		I _F = 1 mA, T _J = 125 °C	-	0.14	-	
		$I_F = 100 \text{ mA}, T_J = 125 ^{\circ}\text{C}$	-	0.47	-	
Reverse Current	I _R ⁽²⁾	$V_R = 24 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	0.1	-	uA
		$V_R = 30 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	-	2	
		$V_R = 30 \text{ V}, T_J = 125 ^{\circ}\text{C}$	-	90	-	

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

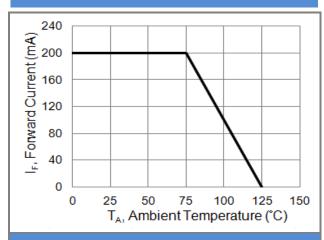


Fig.1 Forward Current Derating Curve

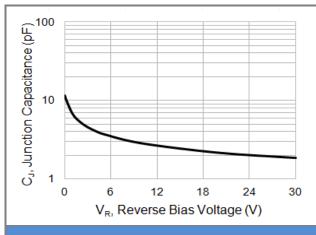


Fig.2 Typical Junction Capacitance

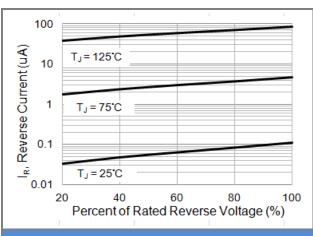
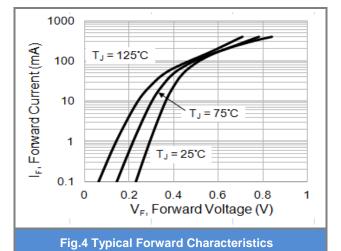
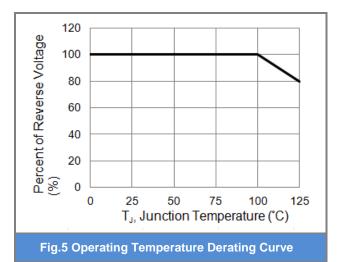


Fig.3 Typical Reverse Characteristics





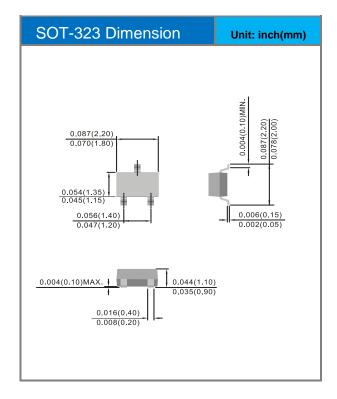


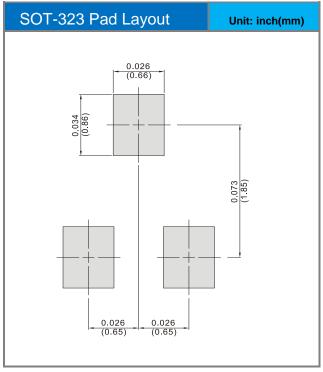


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54W-AU_R1_000A1	SOT-323	3K / 7" Reel	L4	Halogen free
BAT54AW-AU_R1_000A1	SOT-323	3K / 7" Reel	L42	Halogen free
BAT54CW-AU_R1_000A1	SOT-323	3K / 7" Reel	L43	Halogen free
BAT54SW-AU_R1_000A1	SOT-323	3K / 7" Reel	L44	Halogen free

Packaging Information & Mounting Pad Layout









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