

Current

0.2 A



Voltage

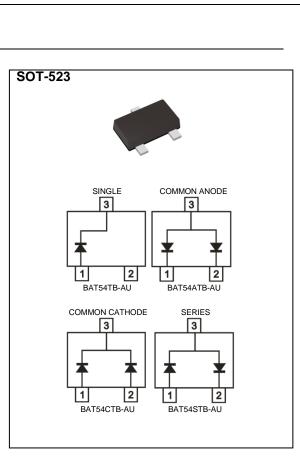
30 V

Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SOT-523 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.002 grams



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	30	V
Maximum RMS Voltage	V _{RMS}	21	V
Maximum DC Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Current	F(AV)	0.2	А
Peak Forward Surge Current : 1 s Single Half Sine-Wave Superimposed On Rated Load	IFSM	0.6	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	4	pF
Typical Thermal Resistance	$R_{\theta JA}$ ⁽¹⁾	630	°C/W
Operating Junction Temperature Range	TJ	-55~125	٥C
Storage Temperature Range	Tstg	-55~125	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 1 mA, T _J = 25 °C	-	-	0.32	V	
		I _F = 100 mA, T _J = 25 °C	-	-	0.6		
		I _F = 1 mA, T _J = 100 °C	-	0.17	-		
		I _F = 100 mA,T _J = 100 °C	-	0.48	-		
Reverse Current	I _R ⁽²⁾	V _R = 24 V, T _J = 25 °C	-	0.1	-		
		$V_R = 30 V, T_J = 25 \circ C$	-	-	2	uA	
		V _R = 30 V, T _J = 100 °C	-	27	-		

NOTES :

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



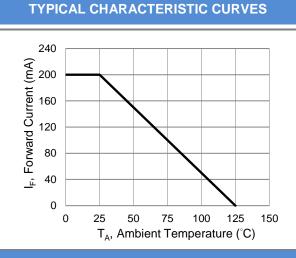


Fig.1 Forward Current Derating Curve

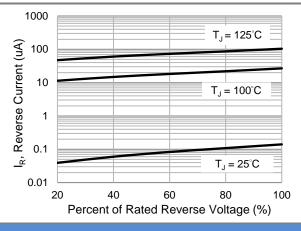
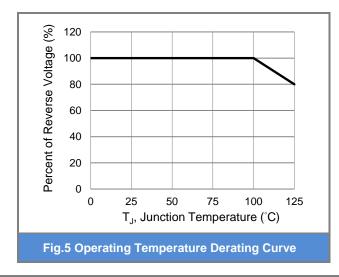


Fig.3 Typical Reverse Characteristics



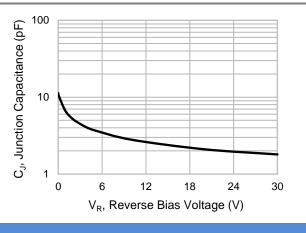


Fig.2 Typical Junction Capacitance

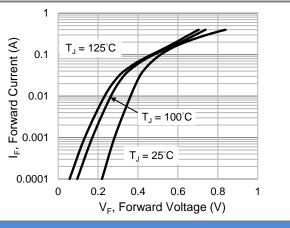


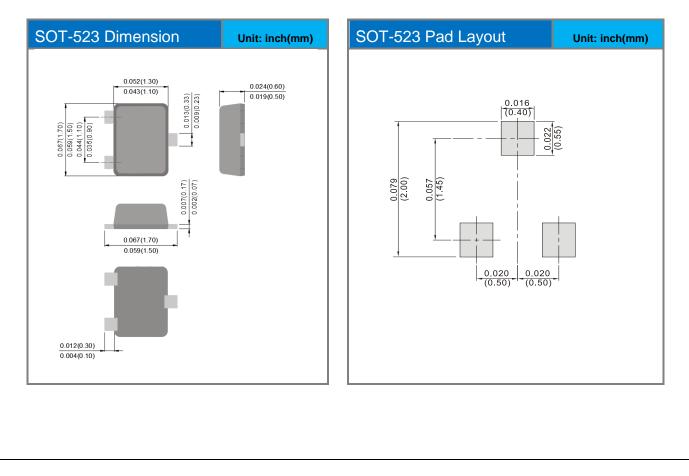
Fig.4 Typical Forward Characteristics



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
BAT54TB-AU_R1_000A1	SOT-523	4K / 7" Reel	LV	Halogen free RoHS compliant
BAT54ATB-AU_R1_000A1	SOT-523	4K / 7" Reel	LW	Halogen free RoHS compliant
BAT54CTB-AU_R1_000A1	SOT-523	4K / 7" Reel	LX	Halogen free RoHS compliant
BAT54STB-AU_R1_000A1	SOT-523	4K / 7" Reel	LY	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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