BAT54TS-AU	
SCHOTTKY BARRIER RECTIFIER	
Voltage30 VCurrent0.2 A	SOD-523
Features	
Low forward voltage drop	
Deal for automated placementLow power loss, high efficiency	
 High surge current capability 	
Lead free in compliance with EU RoHS 2.0	
 Green molding compound as per IEC 61249 standard AEC-Q101 qualified 	
Mechanical Data	
Case: SOD-523 Package	
• Terminals: Solderable per MIL-STD-750, Method 2026	Cathode Anode
 Approx. Weight: 0.00005 ounces, 0.0014 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}	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	А
Peak Forward Surge Current: 1 s Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	0.6	A
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	4	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	710	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C





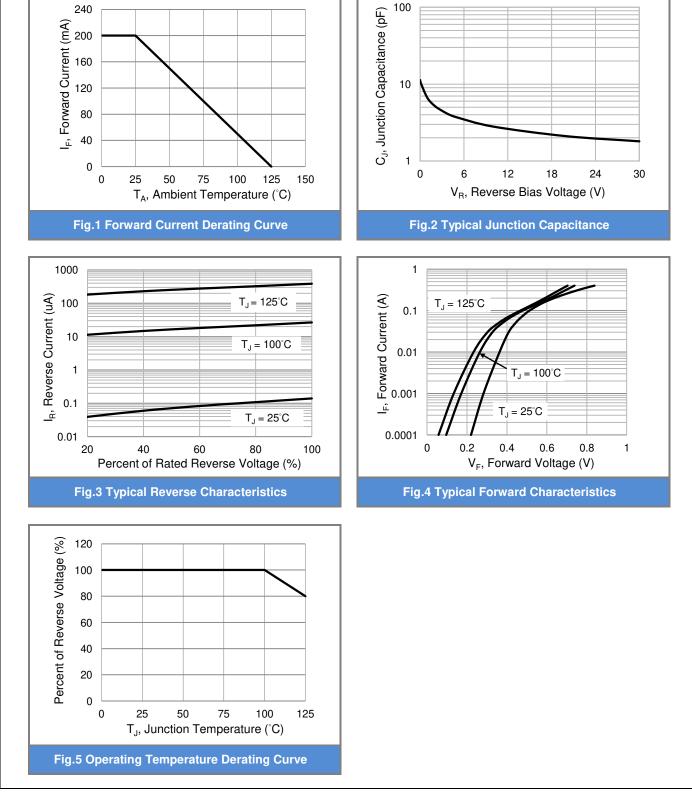


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 1 \text{ mA}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.32	V
		$I_F = 100 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.6	
		$I_F = 1 \text{ mA}, T_J = 100 ^{\circ}\text{C}$	-	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	-	uA
		$V_{R} = 30 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	2	
		$V_{R} = 30 V, T_{J} = 100 °C$	-	27	-	

NOTES:

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



TYPICAL CHARACTERISTIC CURVES

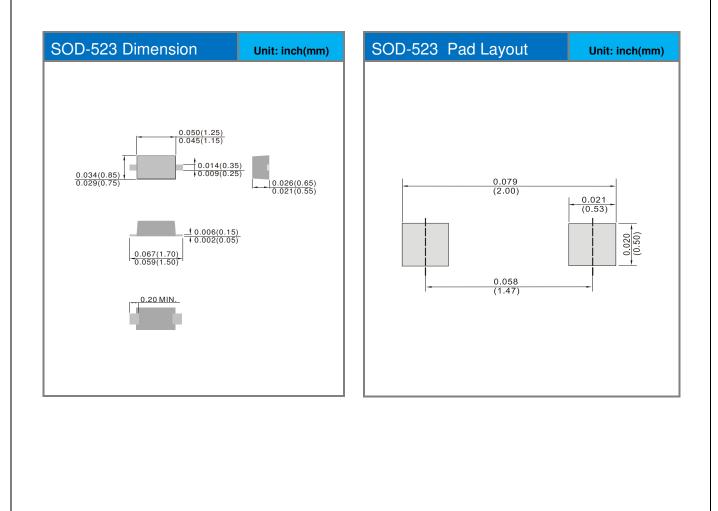




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54TS-AU_R1_000A1	SOD-523	5K pcs / 7" reel	L4	Halogen free

Packaging Information & Mounting Pad Layout





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