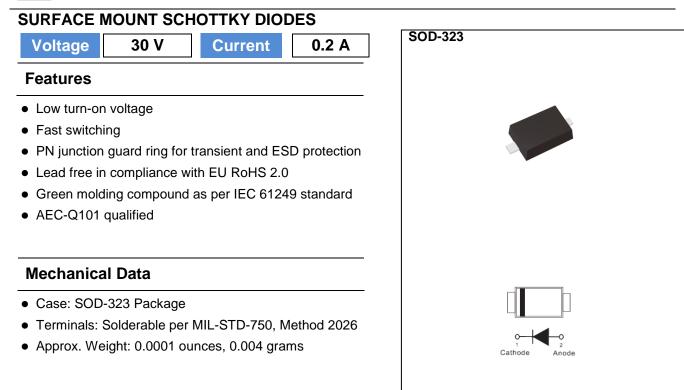
PAN	JIT
	SEMI
	CONDUCTOR

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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}	1	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 1 V$	CJ	10	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	650	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C





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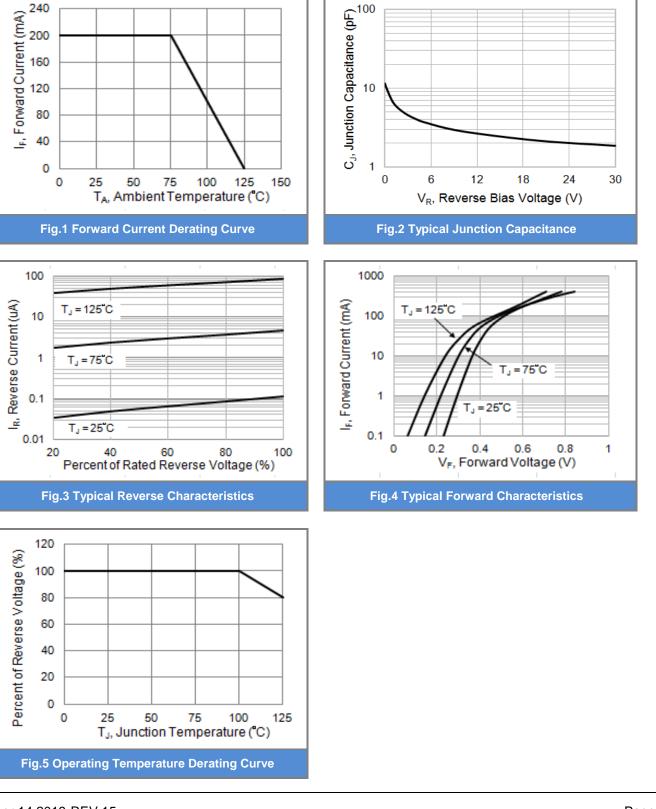
Electrical Characteristics (T _A =	25°C unless otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 1 \text{ mA}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.32	V
		$I_F = 100 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.60	
		I _F = 1 mA, T _J = 125 °C	-	0.14	-	
		I _F = 100 mA, T _J = 125 °C	-	0.47	-	
Reverse Current	Ι _R ⁽²⁾	$V_R = 24 V, T_J = 25 °C$	-	0.1	-	
		$V_R = 30 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	2	uA
		V _R = 30 V, T _J = 125 °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

October 14,2019-REV.15



TYPICAL CHARACTERISTIC CURVES

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PAN SEMI CONDUCTOR

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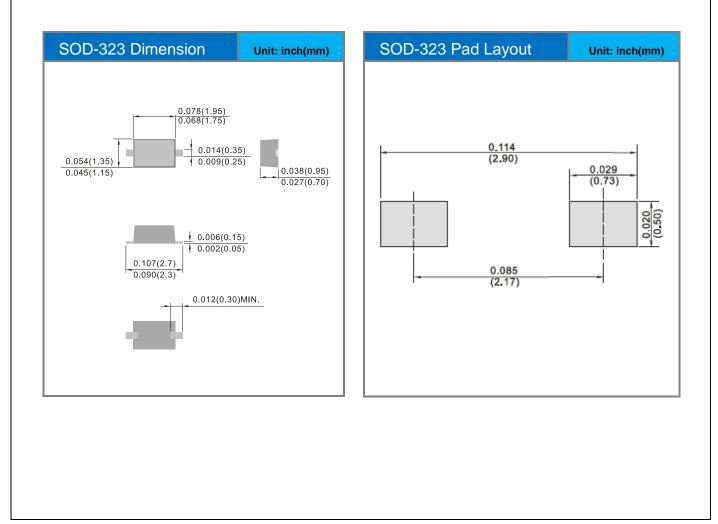


BAT54WS-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54WS-AU_R1_000A1	SOD-323	5K / 7" Reel	L4	Halogen free

Packaging Information & Mounting Pad Layout





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