BAT42W-AU					
URFACE MOUNT SCHOTTKY DIODES					
Voltage	30 V	Current	0.2 A		

Features

SU

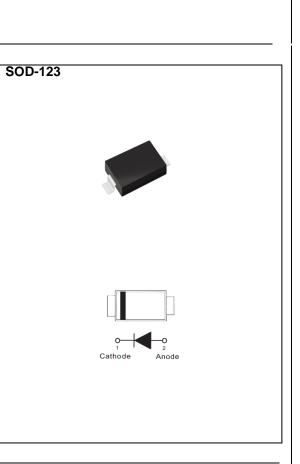
V

- Low power loss, high efficiency
- Deal for automated placement
- Low 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-123 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0004 ounces, 0.001 grams

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 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	4	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$	CJ	4	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	510	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C









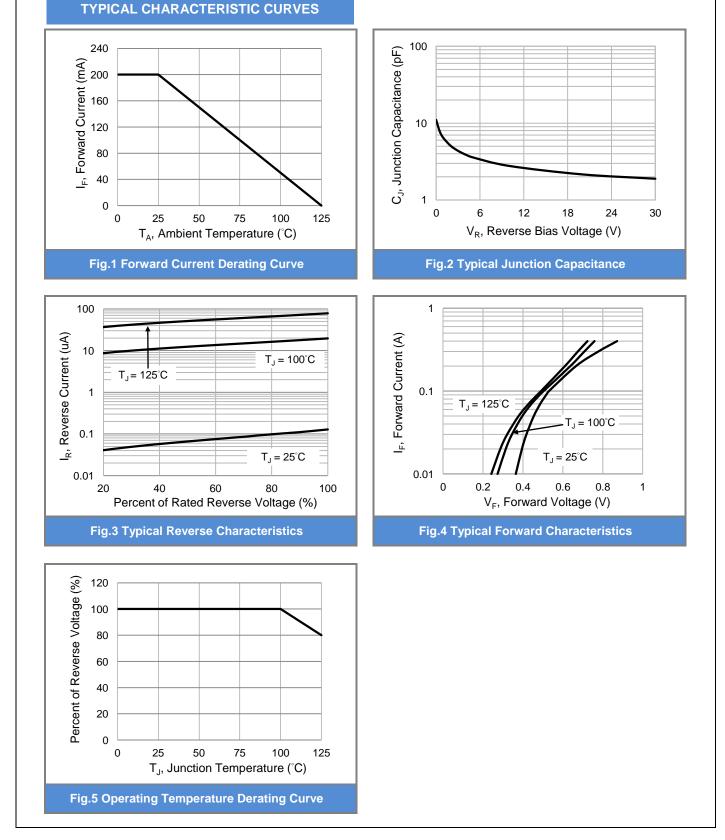
BAT42W-AU

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
	V _F	$I_F = 10 \text{ mA}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.4	v
		$I_F = 200 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	1	
Forward Voltage		$I_{F} = 10 \text{ mA}, T_{J} = 100 ^{\circ}\text{C}$	-	0.24	-	
		I _F = 200 mA,T _J = 100 °C	-	0.61	-	
	۱ _R ⁽²⁾	$V_{R} = 24 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.1	-	uA
Reverse Current		$V_{R} = 30 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	0.5	
		$V_R = 30 \text{ V}, \text{ T}_J = 100 ^{\circ}\text{C}$	-	20	-	

NOTES:

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



BAT42W-AU



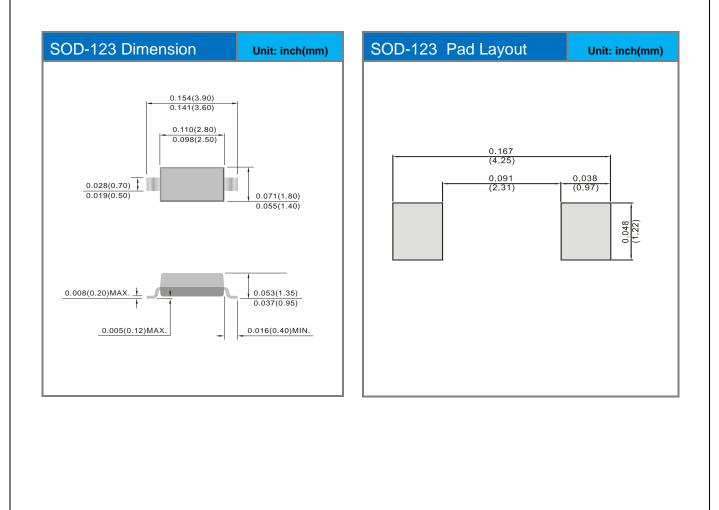




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT42W-AU_R1_000A1	SOD-123	3K / 7" Reel	L2	Halogen free

Packaging Information & Mounting Pad Layout



September 4,2018-REV.00



BAT42W-AU

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