

Low forward voltage drop

Case: SOD-123, Plastic

Polarity: Cathode Band

BAT43W

Weight: 0.01 grams (approx.)

Marking: BAT42W

Fast switching time

automatic insertion

Mechanical Data

BAT42W / BAT43W

200mW Surface Mount Schottky Barrier Diode

RoHS COMPLIANCE

Features

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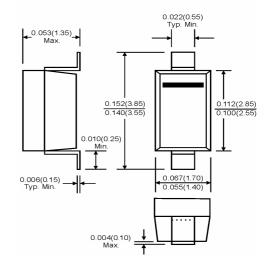
Surface mount package ideally suited for

Terminals: Solderable per MIIL-STD-202, Method 208

S7

S8

<u>SOD-123</u>



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°Cambient temperature unless otherwise specified.

Maximum Ratings				
Type Number	Symbol	BAT42W/BAT43W		Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30		V
RMS Reverse Voltage	VR(RMS)	21		V
Forward Continuous Current (Note 1)	IFM	200		mA
Repetitive Peak Forward Current (Note 1) @ t <1.0s	lfм	500		mA
Non-Repetitive Peak Forward Surge Current @ t <10mS	IFSM	4.0		А
Power Dissipation (Note 1)	Pd	200		mW
Thermal Resistance Junction to Ambient Air (Note 1)	R _{eja}	625		°C /W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 125		°C
Electrical Characteristics				
Type Number	Symbol	Min	Max	Units
Forward Voltage Drop All Types IF=200mA BAT42W IF=10mA BAT42W IF= 50mA BAT43W IF =2.0mA BAT43W IF=15mA	VF	0.26	1.0 0.40 0.65 0.33 0.45	V
Maximum Peak Reverse Current VR=25V VR=25V, Tj=100 °C	IR	-	500 100	nA uA
Junction Capacitance VR=0, f=1.0MHz	Cj	-	10	pF
Reverse Recovery Time (Note 2)	trr	-	5.0	nS

Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.

2. Reverse Recovery Test Conditions: IF=IR=10mA, Irr=0.1 x IR, RL=100Ω.

3. t < 300uS, Duty Cycle < 2%.