

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

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BAT42WS BAT43WS

Features Schott • Fast Switching Speed

Surface Mount Package Ideally Suited for Automatic Insertion

Low Forward Voltage Drop.

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band
- Marking: BAT42WS S7 BAT43WS S8
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	Vrrm		
Working Peak Reverse Voltage	V RWM	30	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	V _{R(RMS)}	21	V
Forward Continuous Current(Note1)	Ігм	200	mA
Average Rectified Output Current	lo	100	mA
Repetitive Peak Forward Surge Current @ t<1.0s	I _{FRM}	500	mA
Non-Rep. Peak Forward Surge Current @ t<10ms	Ігѕм	4	Α
Power Dissipation	P _d	200	mW
Thermal Resistance(Note 1)	R	625	K/W
Operation/Storage Temp. Range	Тј, Тѕтс	-55 to +125	°C

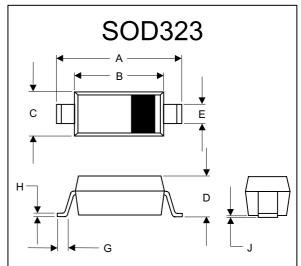
Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
Forward Voltage Drop(Note2) All Types BAT42WS BAT42WS BAT43WS BAT43WS BAT43WS	$V_{\sf FM}$	 0.26 	1.0 0.40 0.65 0.33 0.45	V	I _F =200mA I _F =10mA I _F =50mA I _F =2.0mA I _F =15mA
Maximum Peak Reverse Current	I _{RM}		500 100	nA uA	V _R =25V V _R =25V Tj=100°C
Junction Capacitance	Cj		10	pF	V _R =1V, f=1.0MHz
Reverse Recovery Time	t _{rr}		5	ns	$I_F=I_R=10$ mA $I_{rr}=0.1I_R$ $R_L=100$ OHMS

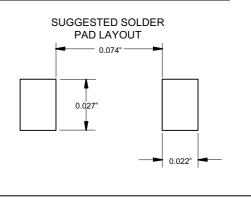
otes: 1. Valid provided that terminals are kept at ambient temperature

2. t<=300us, duty cycle<=2%

Schottky Barrier Diode 200mW



	DIMENSIONS						
DIM	INCHES		N	NOTE			
	MIN	MAX	MIN	MAX			
Α	.090	.107	2.30	2.70			
В	.063	.071	1.60	1.80			
С	.045	.053	1.15	1.35			
D	.031	.045	0.80	1.15			
Е	.010	.016	0.25	0.40			
G	.004	.018	0.10	0.45			
Н	.004	.010	0.10	0.25			
J		.006		0.15			





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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