

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

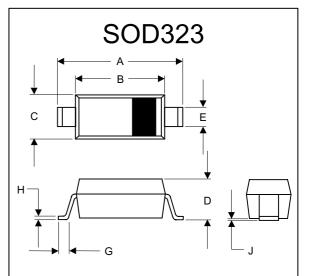
CA 91311

Phone: (818) 701-4933 (818) 701-4939

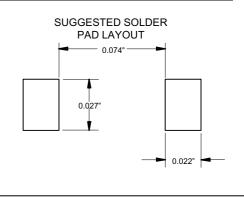
BAT42WS BAT43WS

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			



Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- Low Forward Voltage Drop.

Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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	VRWM	30	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	V _{R(RMS)}	21	V
Forward Continuous Current(Note1)	Iгм	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	Тj, Тsтс	-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	$V_{\sf FM}$	 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	$I_F = I_R = 10 \text{mA}$ $I_{rr} = 0.1 I_R$ $R_L = 1000 \text{HMS}$

1. Valid provided that terminals are kept at ambient temperature

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



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.