

Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC) BAT42W-TP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of BAT42W-TP - DIODE SCHOTTKY 30V 200MA SOD123 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- For General Purpose applications
- These diodes are also available in the DO-35 case with the type designations BAT42 to BAT43 and in the MiniMELF case with the type designations LL42 to LL43.
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking code: BAT42W=S7 ,L2 BAT43W=S8 ,L3

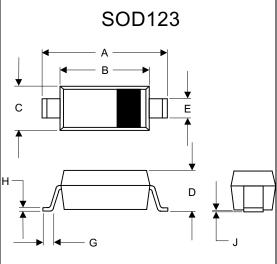
Maximum Katings				
Symbol	Rating Rating L			
V _{RRM}	Repetitive Peak Reverse Voltage	30	V	
IF.	Forward DC Current at Tamb=25 ^o C	200	mA	
I _{FRM}	Repetitive Peak Forward Current at tp<1s, Tamb=25 ^o C ⁽¹⁾	500	mA	
FSM	Surge Forward Current at tp<10ms, Tj=25 ^o C ¹⁾	4.0	А	
P _{tot}	Power Dissipation at Tamb=65 ^o C ⁽¹⁾	200	mW	
R _{JA}	Thermal Resistance Junction to Ambient Air ⁽¹⁾	300	°CW	
ΤJ	Junction Temperature	-55 to +125	°C	
T _{STG}	Storage Temperature	-55 to +150	°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

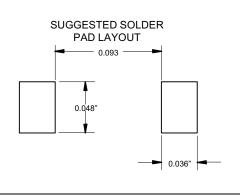
Symbol	Parameter		Min	Тур	Max	Units
V _{(BR)R}	Reverse Breakdown Voltage (k=100uAdc Pulsed)		30			V
V _F	Forward Voltage ⁽²⁾ I=200mAdc I=10mAdc I=50mAdc I=2.0mAdc I=15mAdc	BAT42W BAT42W BAT43W BAT43W	 0.26 	 	1.0 0.4 0.65 0.33 0.45	V
I _R	Leakage Current ⁽²⁾ (V _R =25Vdc) (V _R =25Vdc, Tj=100 ^o C)				0.5 100	uA
C _{tot}	Capacitance (V _R =1.0, f=1.0MHz)			7.0		pF
t _{rr}	Reverse Recovery Time (‡=10mA, l _k =10mA) (Irr=1.0mA, R _L =100OHM)			5.0	ns	

BAT42W THRU BAT43W

200mW Schottky Diodes 30 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
А	.140	.152	3.55	3.85		
В	.100	.112	2.55	2.85		
С	.055	.071	1.40	1.80		
D		.053		1.35		
Ш	.012	.031	0.30	.78		
G	.006		0.15			
Η		.01		.25		
J		.006		.15		



Notes:

1. Valid provided that electrodes are kept at ambient temperature

2. Pulse Test tp<300us, Duty Cycle<2%

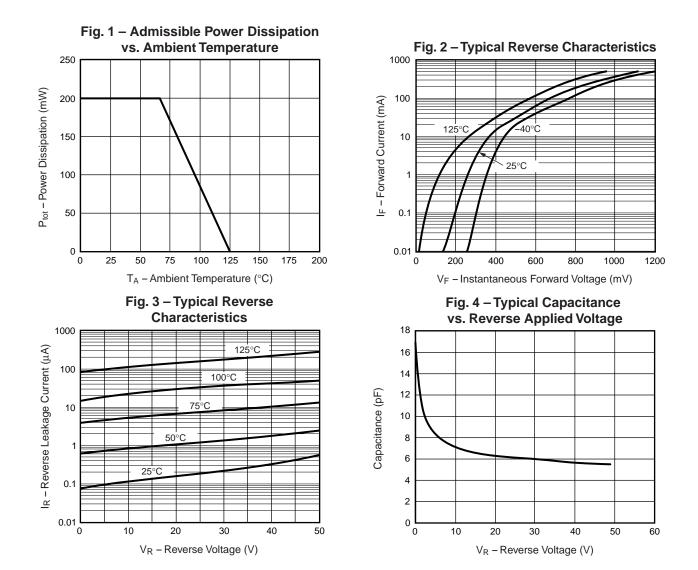


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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****IMPORTANT NOTICE*****

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