

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

BAT42W THRU BAT43W

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)

200mW Schottky Diodes 30 Volts

Mechanical Data

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

BAT43W=S8 ,L3

Maximum Ratings

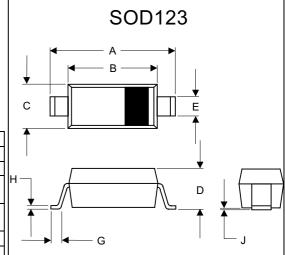
Symbol	Rating	Rating	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
l _F	Forward DC Current at Tamb=25°C	200	mA
I _{FRM}	Repetitive Peak Forward Current at tp<1s, Tamb=25°C ⁽¹⁾	500	mA
I _{FSM}	Surge Forward Current at tp<10ms, Tj=25 ^o C ¹⁾	4.0	А
P _{tot}	Power Dissipation at Tamb=65°C ⁽¹⁾	200	mW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

Electrical Characteristics @ 25°C Unless Otherwise Specified

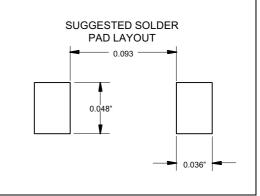
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Symbol	Parameter		Min	Тур	Max	Units
$V_{(BR)R}$	Reverse Breakdown Voltage (_k =100uAdc Pulsed)		30			V
V _F	Forward Voltage ⁽²⁾ \$\mu = 200mAdc \$\mu = 10mAdc \$\mu = 50mAdc \$\mu = 2.0mAdc \$\mu = 15mAdc \$\mu = 15mAdc	BAT42W BAT42W BAT43W BAT43W	 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)			1 1	0.5 100	uA
C _{tot}	Capacitance (V _R =1.0, f=1.0MHz)			7.0		pF
t _{rr}	Reverse Recovery Time (\$\psi = 10mA, \$\psi = 10mA\$) (Irr=1.0mA, \$\psi_ = 1000HM\$)				5.0	ns

Notes:

- 1. Valid provided that electrodes are kept at ambient temperature
- 2. Pulse Test tp<300us, Duty Cycle<2%



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

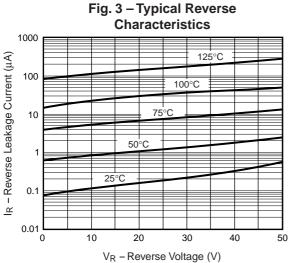


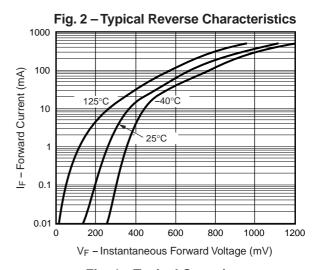
BAT42W thru BAT43W

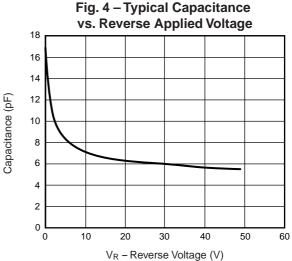


Fig. 1 - Admissible Power Dissipation vs. Ambient Temperature P_{tot} – Power Dissipation (mW)

T_A – Ambient Temperature (°C)









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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

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