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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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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

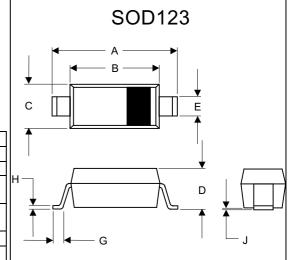
Symbol	Rating	Rating	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
l _F	Forward DC Current at Tamb=25°C	200	mA
I _{FRM}	Repetitive Peak Forward Current at tp<1s, Tamb=25°C ⁽¹⁾		mA
I _{FSM}	Surge Forward Current at tp<10ms, Tj=25°C ¹⁾	4.0	Α
P _{tot}	Power Dissipation at Tamb=65°C(1)	200	mW
R_{JA}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

Electrical Characteristics @ 25°C Unless Otherwise Specified

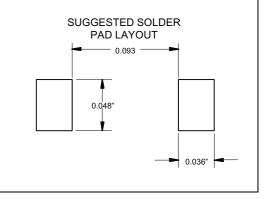
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Symbol	Parameter	Min	Тур	Max	Units	
$V_{(BR)R}$	Reverse Breakdown Voltage (_k =100uAdc Pulsed)		30	1		V
V _F	Forward Voltage (2) I _I =200mAdc I _I =10mAdc I _I =50mAdc I _I =2.0mAdc I _I =2.0mAdc I _I =15mAdc I _I =15mAdc		 0.26 		1.0 0.4 0.65 0.33 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, k=10mA) (Irr=1.0mA, R=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	

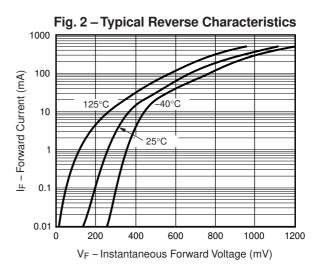


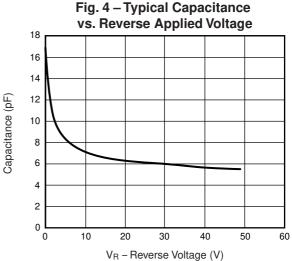
BAT42W thru BAT43W



Fig. 1 - Admissible Power Dissipation vs. Ambient Temperature 250 P_{tot} – Power Dissipation (mW) 200 150 100 50 0 25 75 100 150 175 125 200 T_A – Ambient Temperature (°C)

Fig. 3 - Typical Reverse Characteristics 1000 IR - Reverse Leakage Current (μA) 125°C 100 100°C 75[']℃ 10 50⁰℃ 25°C 0.1 0.01 10 20 30 40 V_R - Reverse Voltage (V)







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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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