

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Fast Switching Speed
- Surface Mount Package Ideally Suited For Automatic Insertion
- Low Forward Voltage Drop.
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- · Polarity: Indicated By Cathode Band
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note 1): 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT42WS	S7	30V	21V	30V
BAT43WS	S8	30V	21V	30V

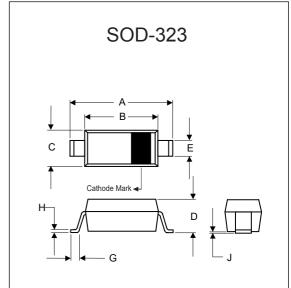
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current(Note1)	I _{FM}	200mA	
Average Rectified Output Current	Io	100mA	
Repetitive peak Forward Surge Current	I _{FRM}	500mA	tp <1.0s
Non-repetitive Peak Forward surge current	I _{FSM}	4A	t<10ms
Power Dissipation	P _D	200mW	
Forward Voltage Drop(Note2) All Types BAT42WS BAT43WS	V _F	1.0V(Max) 0.40V(Max) 0.65V(Max) 0.26V(Min) 0.33V(Max) 0.45V(Max)	I_F =200mA; I_F =10mA; I_F =50mA; I_F =2.0mA; I_F =15mA;
Tæ¢ã(~{ÁÚ^æ\ÁÜ^ç^\•^ Ô~; ^}c	I _{RM}	500nA(Max) 100μA(Max)	V _R =25V V _R =25V T _J =100°C
Junction Capacitance	CJ	10pF(Max)	V _R =1V, f=1.0MHz
Reverse Recovery Time	t _{rr}	5ns(Max)	$I_F=I_R=10$ mA $Irr=0.1 I_R$ $R_L=100\Omega$

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

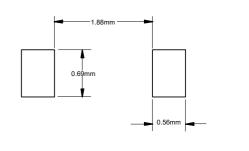
2. t<=300us, duty cycle<=2%

Schottky Barrier Diode 200mW



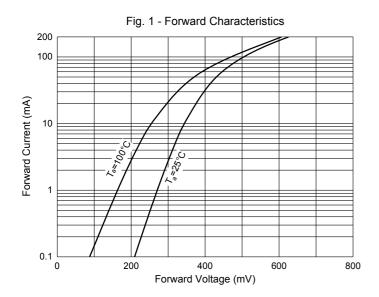
DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.090	0.107	2.30	2.70				
В	0.063	0.071	1.60	1.80				
С	0.045	0.053	1.15	1.35				
D	0.031	0.045	0.80	1.15				
E	0.010	0.016	0.25	0.40				
G	0.004	0.018	0.10	0.45				
Н	0.004	0.010	0.10	0.25				
J		0.006		0.15				

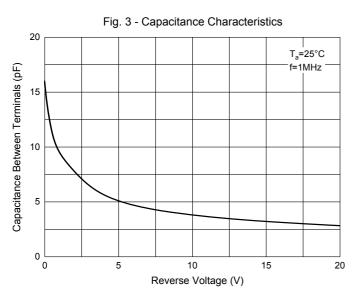
Suggested Solder Pad Layout

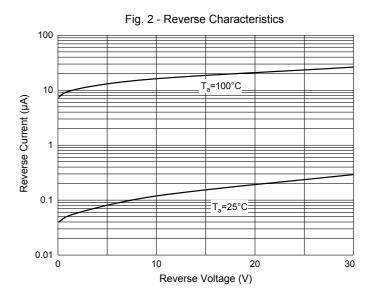


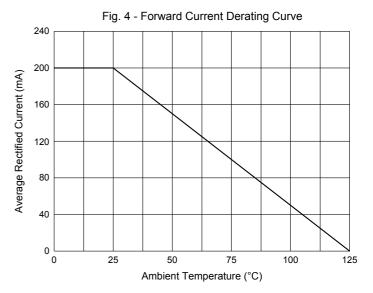


Curve Characteristics











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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