

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)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 300°C/W Junction to Ambient Air⁽¹⁾

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT42W	S7/L2	30V	21V	30V
BAT43W	S8/L3	30V	21V	30V

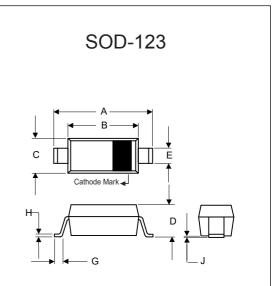
Electrical Characteristics @ 25°C Unless Otherwise Specified

	-		
Forward DC Current	١ _F	200mA	Tamb=25°C
Repetitive Peak Forward Current	I _{FRM}	500mA	tp<1s,Tamb=25°C ⁽¹⁾
Surge Forward Current	I _{FSM}	4.0A	tp<10ms,Tj=25°C ⁽¹⁾
Power Dissipation	P _{tot}	200mW	Tamb=65°C ⁽¹⁾
Reverse Breakdown Voltage	V _{(BR)R}	30V(Min)	I _R =100µAdc Pulsed
Forward Voltage ⁽²⁾ BAT42W	V _F	1.0V(Max) 0.4V(Max) 0.65V(Max)	I _F =200mA I _F =10mA I _F =50mA
BAT43W		0.26V(Min) 0.33V(Max) 0.45V(Max)	I _F =2.0mA I _F =15mA
Leakage Current ⁽²⁾	I _R	0.5µA(Max) 100µA(Max)	V _R =25V V _R =25V,T _J =100°C
Typical Junction Capacitance	C _{tot}	7.0pF(Typ)	V _R =1.0, f=1.0MHz
Reverse Recovery Time	t _{rr}	5.0ns(Max)	I _F =10mA, I _R =10mA Irr=1.0mA, R _L =100Ohm

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

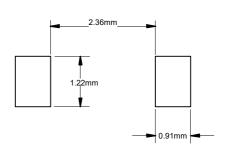
2. Pulse Test tp<300us, Duty Cycle<2%

200mW Schottky Diodes 30 Volts



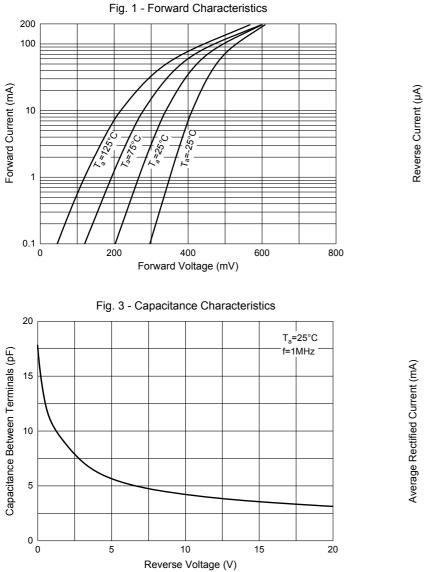
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
E	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

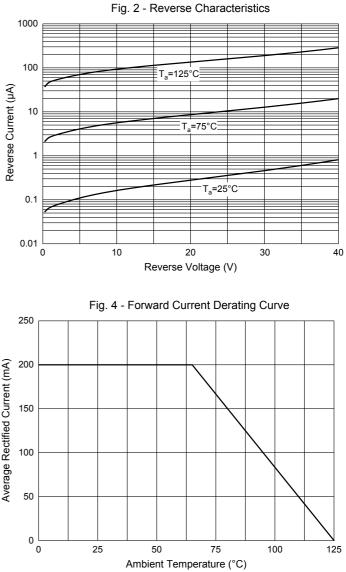
Suggested Solder Pad Layout





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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