

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Extremely Low Thermal Resistance
- For Surface Mount Application And High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance:330°C/W Junction to Ambient(Note 2)

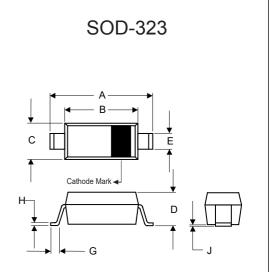
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
BAT165WS	2G	40V	28V	40V

Average Forward Current	I _{F(AV)}	0.75A	
Peak Forward Surge Current	I _{FSM}	10A	8.3ms Half Sine
		0.29V(Typ.) 0.38V(Max.)	I _F =10mA; T _J =25 °C I _F =10mA; T _J =25 °C
		0.37V(Typ.) 0.47V(Max.)	I _F =100mA; T _J =25 °C I _F =100mA; T _J =25 °C
Instantaneous Forward Voltage	V_{F}	0.42V(Typ.) 0.54V(Max.)	I _F =250mA; T _J =25 °C I _F =250mA; T _J =25 °C
		0.48V(Typ.) 0.64V(Max.)	I _F =500mA; T _J =25 °C I _F =500mA; T _J =25 °C
		0.54V(Typ.) 0.74V(Max.)	I _F =750mA; T _J =25 °C I _F =750mA; T _J =25 °C
	I _R	1.2uA(Typ.)	V _R = 30V T _J =25 °C
Reverse Current		2uA(Typ.)	V _R = 40V T _J =25 °C
		8uA(Max.)	V _R = 40V T _J =25 °C
		1.5mA(Typ.)	V _R = 40V T _J =125 °C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz,V _R =10V
Power Dissipation	P_D	380mW	(Note 2)

Note:

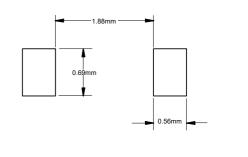
Halogen free "Green" products are defined as those which contain <900ppm bromine,
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.

0.75 Amp Schottky Rectifier 40 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
А	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			
Е	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			

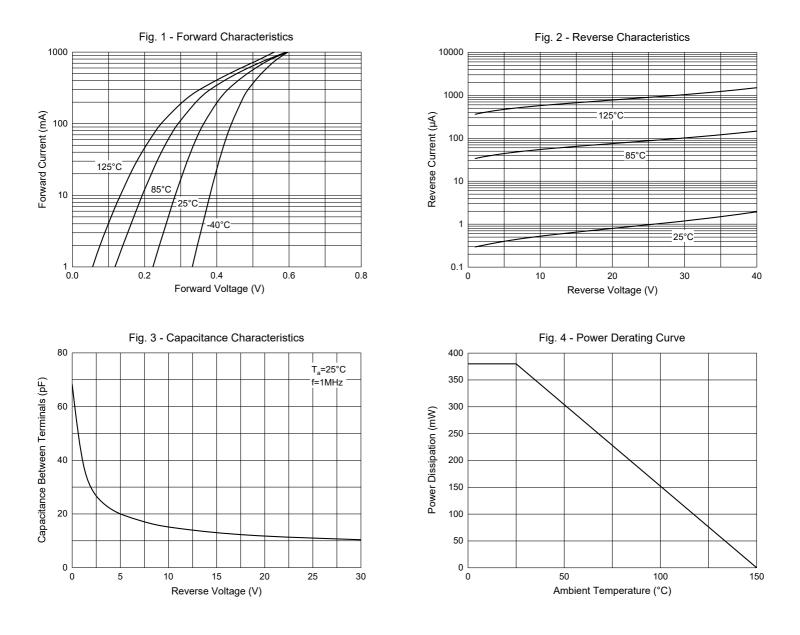
Suggested Solder Pad Layout







Curve Characteristics







Ordering Information

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

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