

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: 250°C/W Junction to Ambient

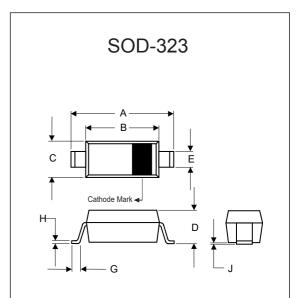
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B05100WS	510	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5A	T _A =50°C
Peak Forward Surge Current	I _{FSM}	5.5A	8.3ms Half Sine
Instantaneous Forward Voltage	V _F	0.85V(Max.) 0.77V(Typ.)	I _{FM} =0.5A; T _J =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	1µA	T _J =25°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz,V _R =4.0V

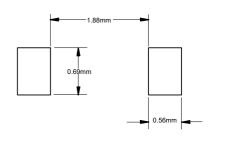
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

0.5 Amp Schottky Rectifier 100 Volts



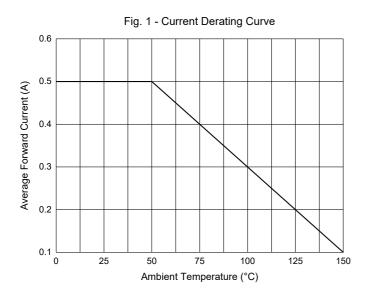
DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.090	0.107	2.30	2.70				
В	0.063	0.071	1.60	1.80				
С	0.045	0.053	1.15	1.35				
D	0.031	0.045	0.80	1.15				
Е	0.010	0.016	0.25	0.40				
G	0.004	0.018	0.10	0.45				
Н	0.004	0.010	0.10	0.25				
J		0.006		0.15				

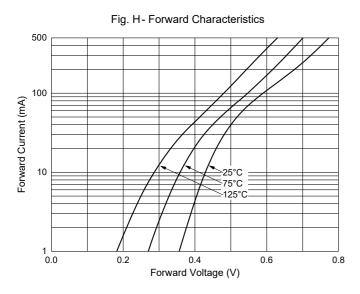
Suggested Solder Pad Layout

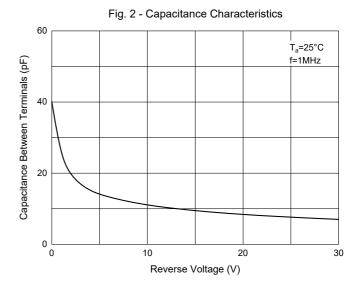


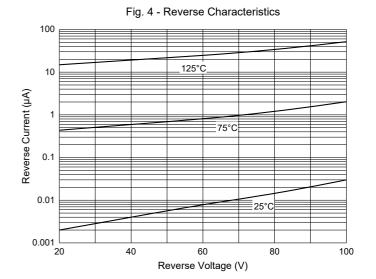


Curve Characteristics











Ordering Information

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

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