

# 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 +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance:400°C/W Junction to Ambient

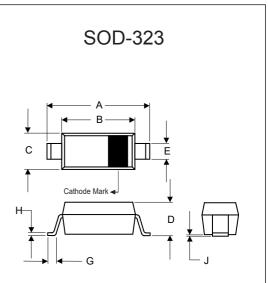
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
B0540WS	4	40V	28V	40V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	0.5A	T <sub>A</sub> =25 °C
Peak Forward Surge Current	I <sub>FSM</sub>	5A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.55V	I <sub>FM</sub> =0.5A; T <sub>J</sub> =25 °C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.08mA	V <sub>R</sub> = 40V
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz,V <sub>R</sub> =4.0V
Power Dissipation	P <sub>D</sub>	250mW	

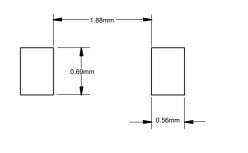
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# 0.5 Amp Schottky Rectifier 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**

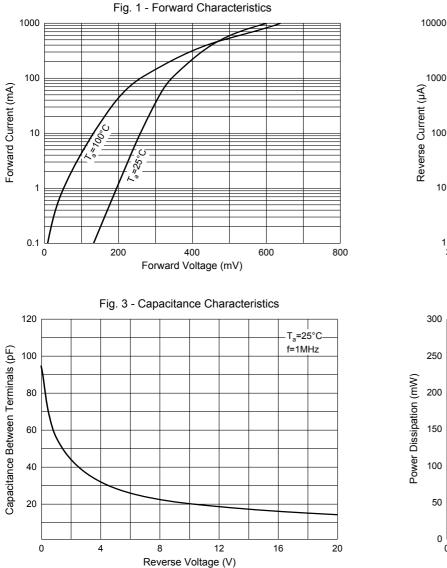
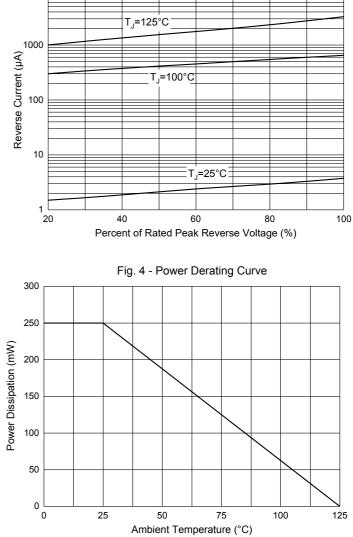


Fig. 2 - Reverse Characteristics





# **Ordering Information**

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

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