

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- For Surface Mount Application
- Halogen Free. "Green" Device (Note 1)
- 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: 244°C/W Junction to Ambient

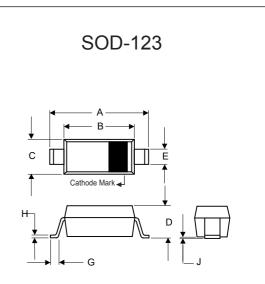
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B0540W	R41	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5A		
Peak Forward Surge Current	I _{FSM}	5.5A	8.3ms half sine	
Maximum Instantaneous Forward Voltage	V _F	0.55V	I _{FM} =0.5A; T _J =25°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	80μΑ	TJ=25°C	
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz,V _R =4.0 V	
Power Dissipation	P _D	410mW		

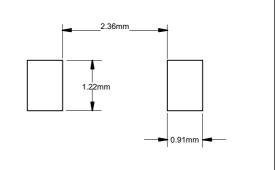
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.





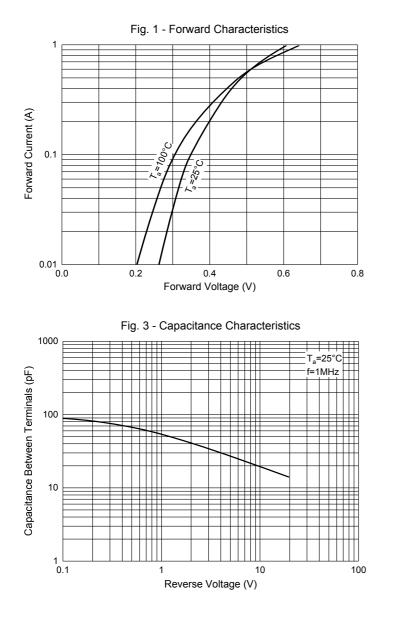
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
E	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

Suggested Solder Pad Layout





Curve Characteristics



1000 T_a=100°C 100 Reverse Current (µA) 10 T_=25°C 1 0.1 0 10 30 20 40 Reverse Voltage (V) Fig. 4 - Power Derating Curve 500 400 Power Dissipation (mW) 300 200 100 0 L 0 25 50 75 100 125 150 Ambient Temperature (°C)

Fig. 2 - Reverse Characteristics



Ordering Information

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

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