



Micro Commercial Components  
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# B0540W

## 0.5 Amp Schottky Rectifier 40 Volts

### Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- For Surface Mount Application
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

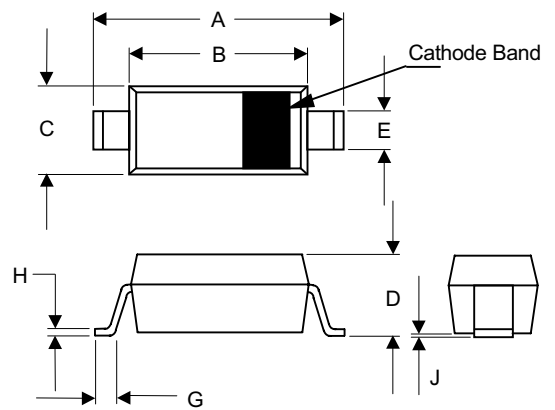
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 244°C/W Junction to Ambient

MCC Catalog 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

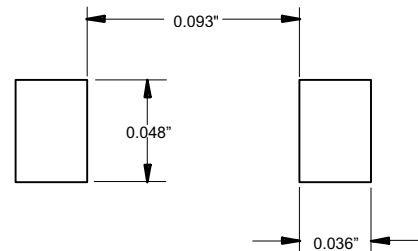
Average Forward Current	$I_{F(AV)}$	0.5A	
Peak Forward Surge Current	$I_{FSM}$	5.5A	8.3ms half sine
Maximum Instantaneous Forward Voltage	$V_F$	0.55V	$I_{FM}=0.5A$ $T_A=25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	80µA	$T_A=25^\circ C$
Typical Junction Capacitance	$C_J$	30pF	Measured at 1.0MHz, $V_R=4.0 V$
Power dissipation	$P_D$	410mW	

### SOD-123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

#### SUGGESTED SOLDER PAD LAYOUT





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### 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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