

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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MBRX0540-TPS01

0.5 Amp Schottky Rectifier 40 Volts

Features

- 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
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

Operating Temperature: -55°C to +125°C

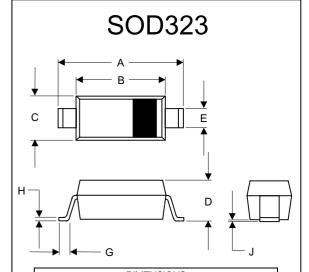
Storage Temperature: -55°C to +150°C

Maximum Thermal Resistance: 5°C/W Junction to Lead

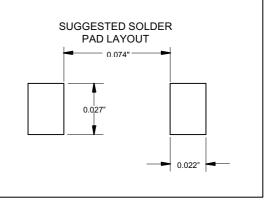
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX0540-TPS01	4	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5A	T _J =90°C
Peak Forward Surge Current	I _{FSM}	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	0.3mA	T _A =25°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V _R =4.0V
Power Dissipation	P _D	250mW	



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.090	.113	2.30	2.88		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.049	0.80	1.24		
Ε	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Н	.004	.010	0.10	0.25		
J		.006		0.15		



MBRX0540-TPS01



Figure 1
Typical Forward Characteristics

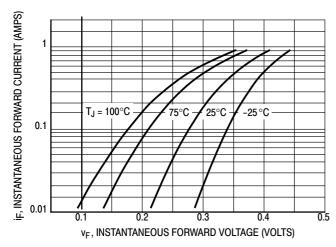
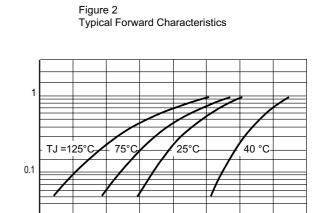


Figure 3
Typical Forward Characteristics



vF, INSTANTANEOUS VOLTAGE (VOLTS)

2009/06/19

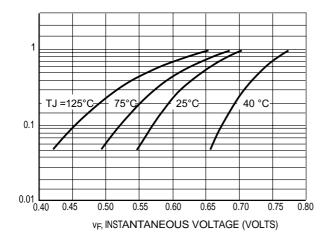
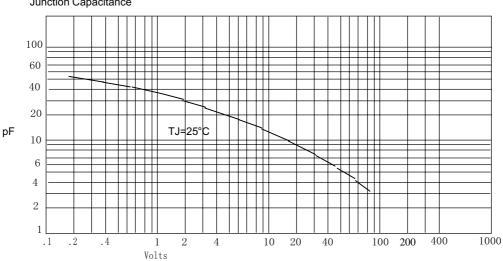


Figure 4
Junction Capacitance

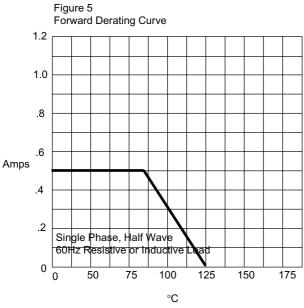


0.01 L 0.15

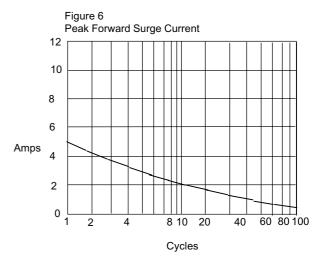


MBRX0540-TPS01

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Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

Device	Packing
MBRX0540-TPS01	Tape&Reel3Kpcs/Reel

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