

Micro Commercial Components

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MBRX0530-TPS01

0.5 Amp Schottky Rectifier 30 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

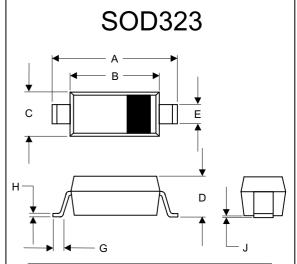
Storage Temperature: -55°C to +150°C

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

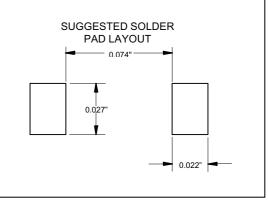
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX0530-TPS01	3	30V	21V	30V

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	



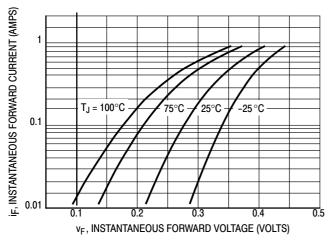
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.113	2.30	2.88	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.049	0.80	1.24	
Ε	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	



MBRX0530-TPS01



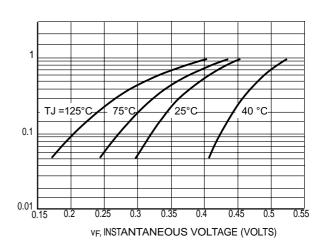
Figure 1 Typical Forward Characteristics



Typical Forward Characteristics



Figure 2 Typical Forward Characteristics



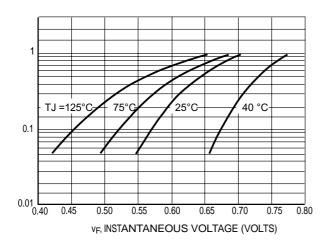
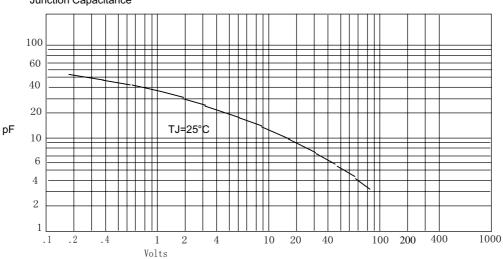


Figure 4 Junction Capacitance

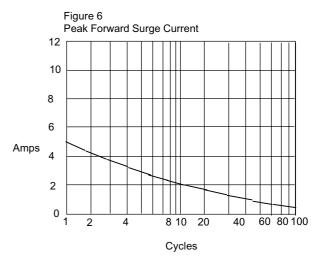




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Figure 5 Forward Derating Curve 1.2 1.0 .8 .6 Amps .4 Single Phase, Half Wave 60Hz Resistive or Inductive 0 50 75 100 125 150 175 °C

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



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



Ordering Information

Device	Packing
MBRX0530-TPS01	Tape&Reel3Kpcs/Reel

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