

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBR545F

5 Amp Schottky Barrier Rectifier 45 Volts

Features

- Low Forward Voltage Drop
- High frequency properties and switching speed
- High Current Capability
- Guard Ring for over-voltage protection
- Case Material: Molded plastic UL Flammability Classification Rating 94V-0

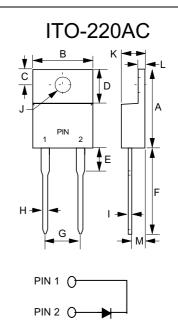
Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance, Rthjc: 4.5°C/W

		Device Marking	Maximum		
	MCC Part Number		Recurrent	Maximum	Maximum
			Peak	RMS	DC Blocking
			Reverse	Voltage	Voltage
"			Voltage		
MI	BR545F	MBR545F	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5 A	T _C = 120°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	0.55V 0.49V	I _F = 5A; T _C = 25°C I _F = 5A; T _C =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1mA 40mA	T _C = 25°C T _C = 125°C



		DIME	NSIONS		
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	
Α	.583	.606	14.80	15.40	
В		.406		10.30	
С	.100	.112	2.55	2.85	
D	.248	.272	6.30	6.90	
Е		.161		4.10	
F	.512	.543	13.00	13.80	
G	.200		5.10		
Н		.035		0.90	
- 1		.032		0.80	
J	.118	.134	3.00	3.40	Ø
K		.189		4.80	
L		.123		3.10	
М	.098	.114	2.50	2.90	



MBR545F

Typical Characteristics

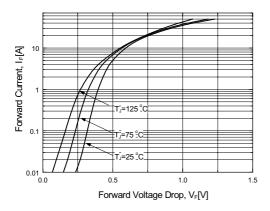


Figure 1. Typical Forward Voltage Characteristics

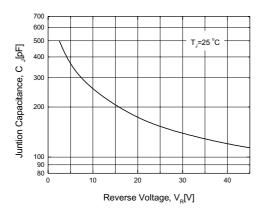


Figure 3. Typical Junction Capacitance

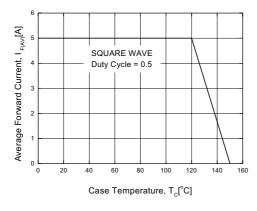


Figure 5. Forward Current Derating Curve

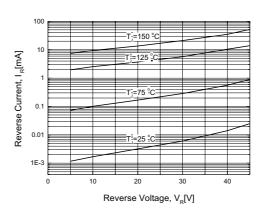


Figure 2. Typical Reverse Current vs. Reverse Voltage

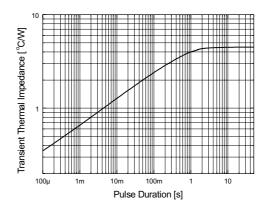


Figure 4. Thermal Impedance Characteristics

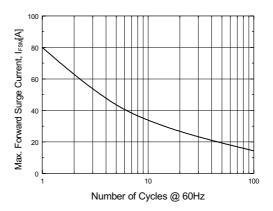


Figure 6. Non-Repetitive Surge Current



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