



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MBRB20150CT

Features

- High Junction Temperature Capability
- Good Trade Off Between Leakage Current And Forward Voltage Drop
- Low Leakage Current

Maximum Ratings

- Operating Junction Temperature -50°C to $+150^{\circ}\text{C}$
- Storage Temperature: -50°C to $+150^{\circ}\text{C}$

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB20150CT	150 V	105V	150 V

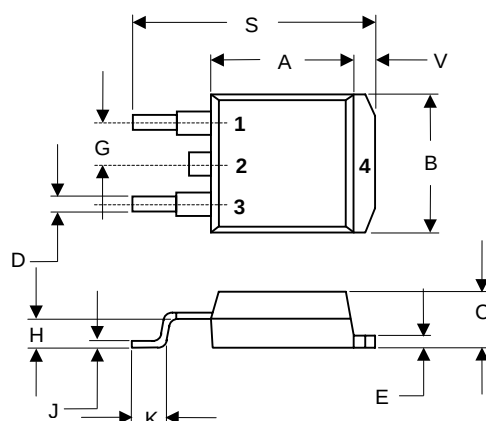
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	180A	8.3ms, half sine wave
Maximum Instantaneous Forward Voltage	V_F	.92V .75V	$I_{FM} = 10\text{A}$ $T_J = 25^{\circ}\text{C}$ $I_{FM} = 10\text{A}$ $T_J = 125^{\circ}\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage	I_R	$50 \mu\text{A}$	$T_J = 25^{\circ}\text{C}$

* Pulse Test: Pulse Width 380 μsec , Duty Cycle 2%

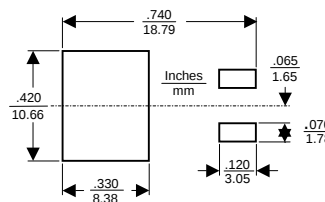
20 Amp High Volt Power Schottky Barrier Rectifier 150 Volts

D²-PACK



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.320	.359	8.13	9.14	
B	.380	.411	9.65	10.45	
C	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
E	.045	.055	1.14	1.40	
G	.095	.105	2.41	2.67	
H	.096	.120	2.43	3.03	
J	.014	.021	0.35	0.53	
K	.090	.110	2.29	2.79	
S	.575	.625	14.60	15.80	
V	.045	.055	1.14	1.40	

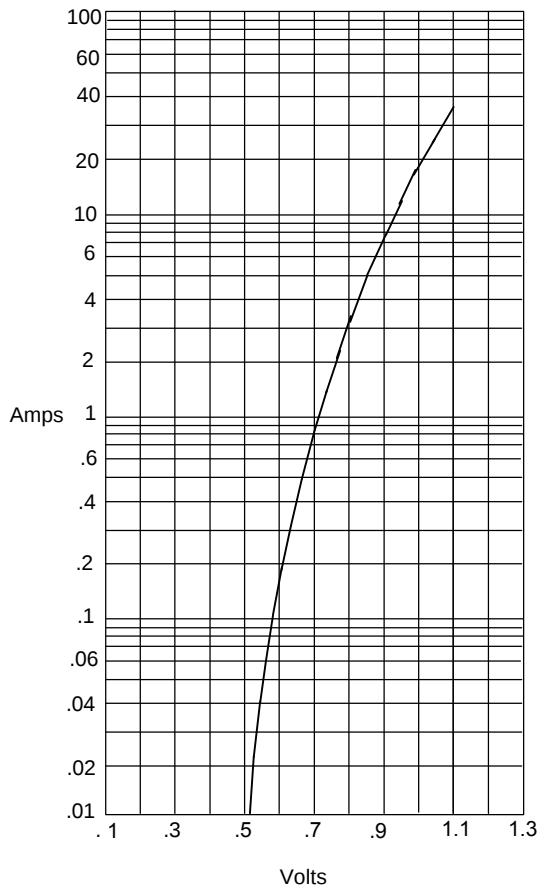
SUGGESTED SOLDER PAD LAYOUT



MBRB20150CT

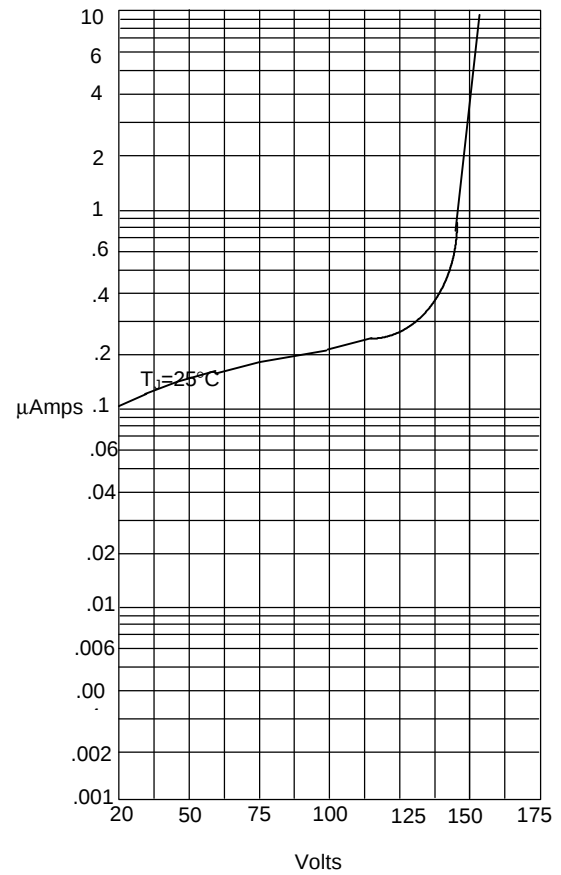


Figure 1
Typical Forward Characteristics



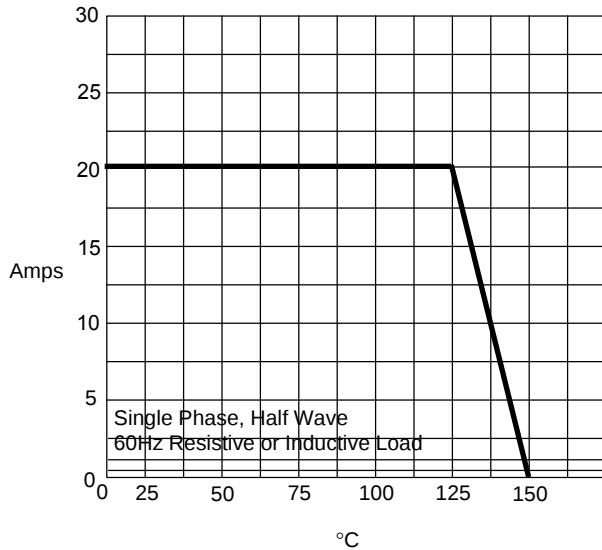
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



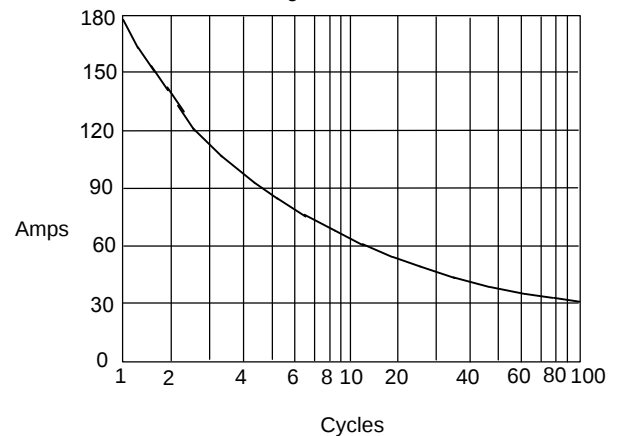
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles