



Micro Commercial Components

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

MBRB1520CT THRU MBRB15100CT

15 Amp Schottky Barrier Rectifier 20 to 100 Volts

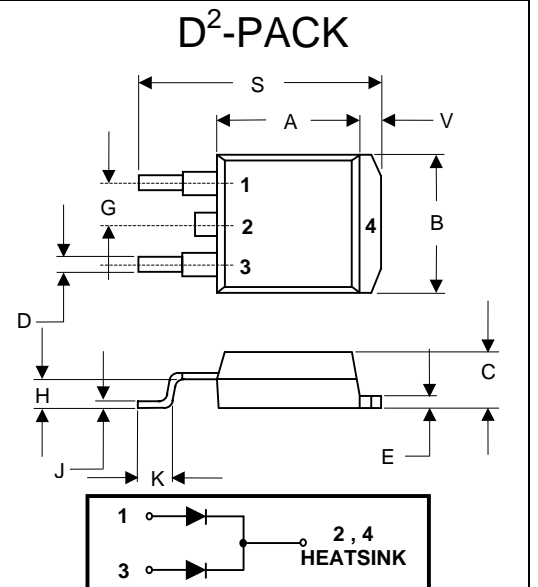
Features

- Guard ring for transient protection
- Low Forward Voltage Drop
- High Current Capability, High Efficiency
- Low Power Loss
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : type number

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB1520CT	20V	14V	20V
MBRB1530CT	30V	21V	30V
MBRB1535CT	35V	24.5V	35V
MBRB1540CT	40V	28V	40V
MBRB1545CT	45V	31.5V	45V
MBRB1560CT	60V	42V	60V
MBRB1580CT	80V	56V	80V
MBRB15100CT	100V	70V	100V

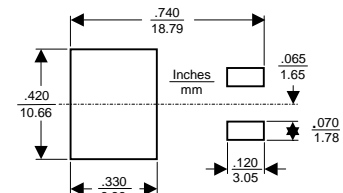


Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15 A	$T_C = 105^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.84V .75V .92V	$I_{FM} = 15A;$ $I_{FM} = 7.5A$ $T_J = 25^\circ\text{C}$
1520CT-45CT			
1560CT			
1580CT-100CT			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA	$T_J = 25^\circ\text{C}$
1520CT-45CT		1.0mA	$T_J = 125^\circ\text{C}$
1560CT-100CT		15mA	
1520CT-45CT		50mA	
1560CT		100mA	
1580CT-100CT			

DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	

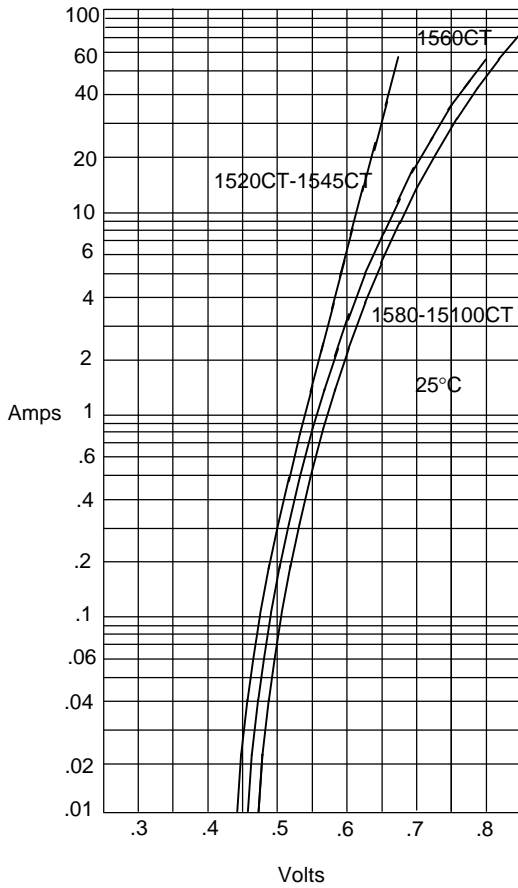
SUGGESTED SOLDER PAD LAYOUT



*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

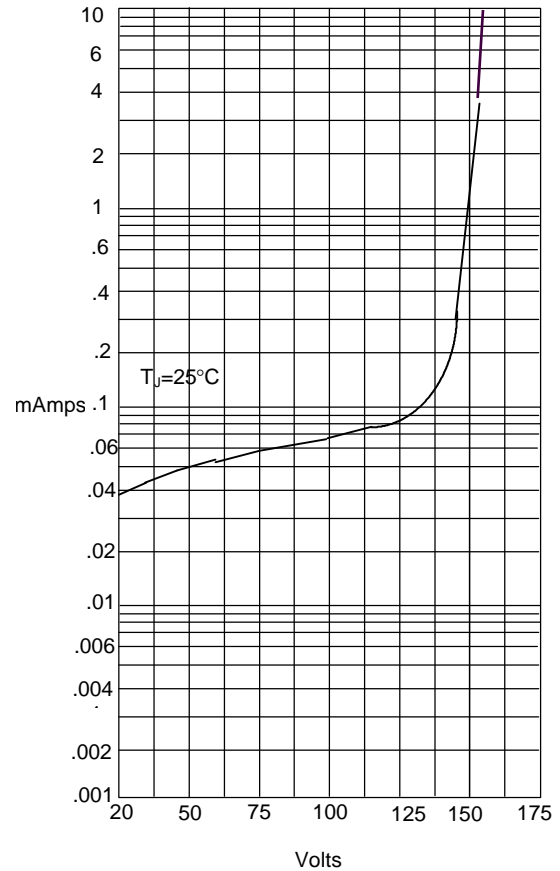
MBRB1520CT thru MBRB15100CT

Figure 1
Typical Forward Characteristics



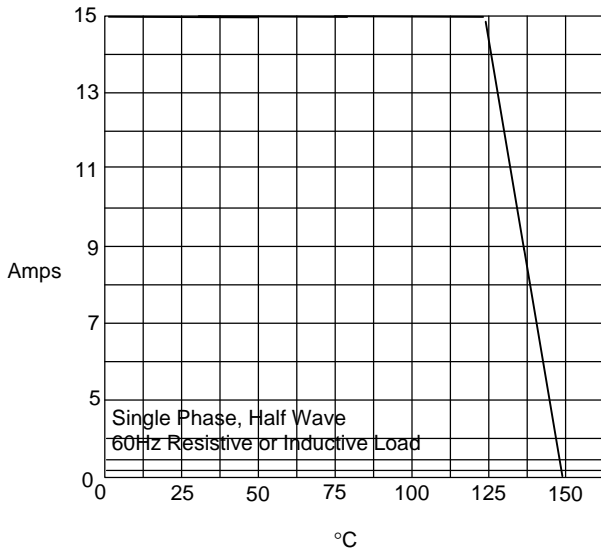
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



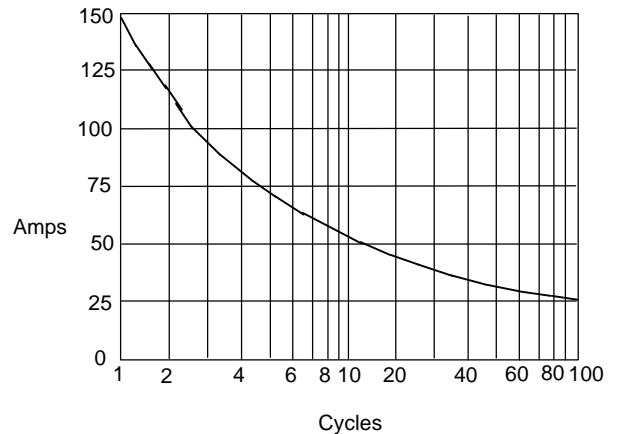
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Case Temperature - °C

Figure 4
Peak Forward Surge Current



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



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