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MBRB10100CT

10 Amp Schottky Barrier Rectifier 100 Volts

Features

- Metal of Silicon Rectifier, Majority Carrier Conducton
- Low Power Loss
- High Current Capability, High Efficiency
- Guard Ring For Transient Protection

Maximum Ratings

- Operating Temperature: -50℃ to +150℃
- Storage Temperature: -50℃ to +150℃

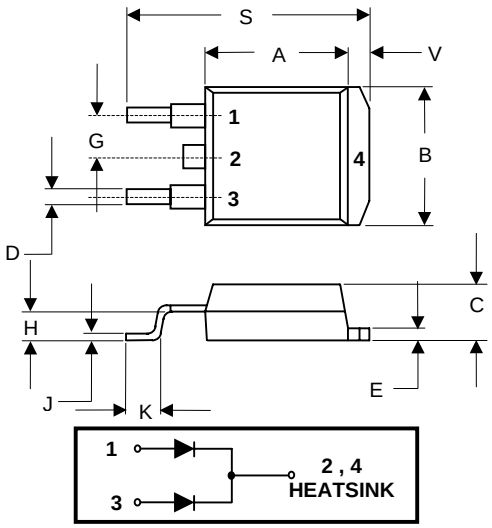
Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB10100CT	MBRB10100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	T_J = 100℃
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.85V 0.75V	I_{FM} = 5.0A; T_J = 25℃ I_{FM} = 5.0A; T_J = 125℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA 15mA	T_J = 25℃ T_J = 125℃

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

D^2-PACK



DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
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

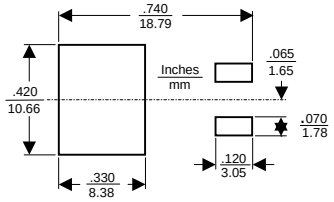


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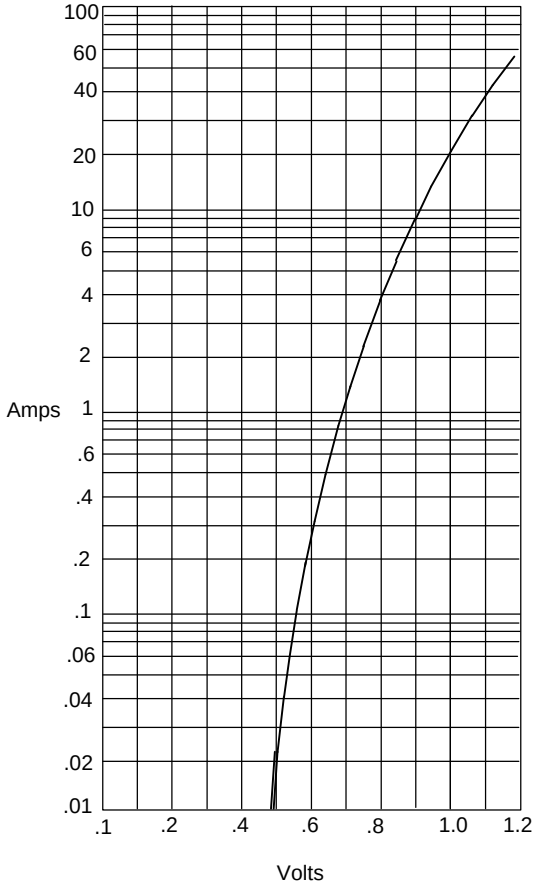
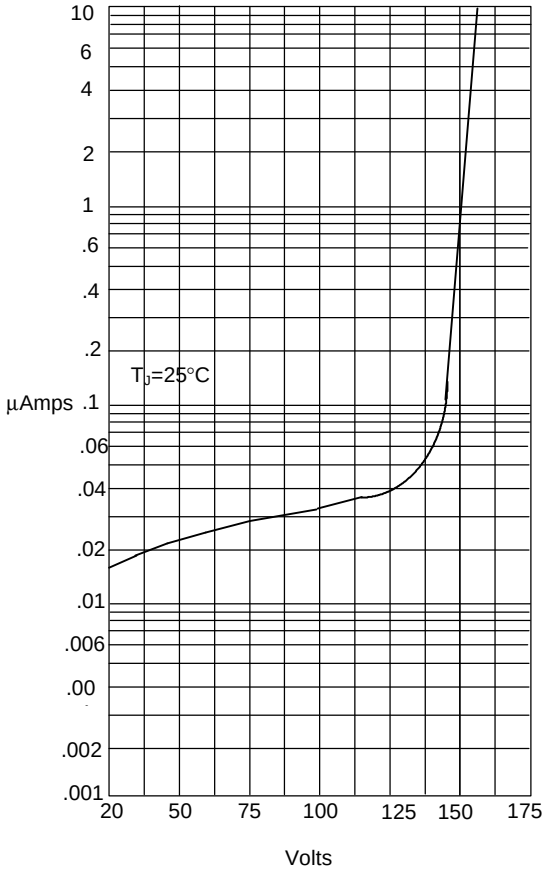
Figure 1
Typical Forward Characteristics



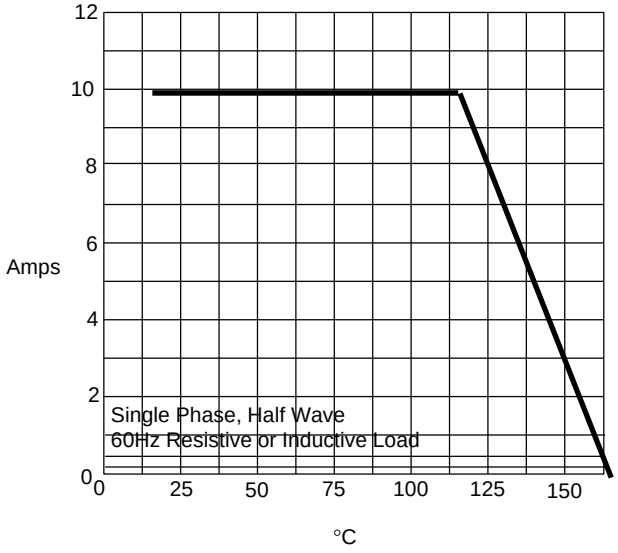
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



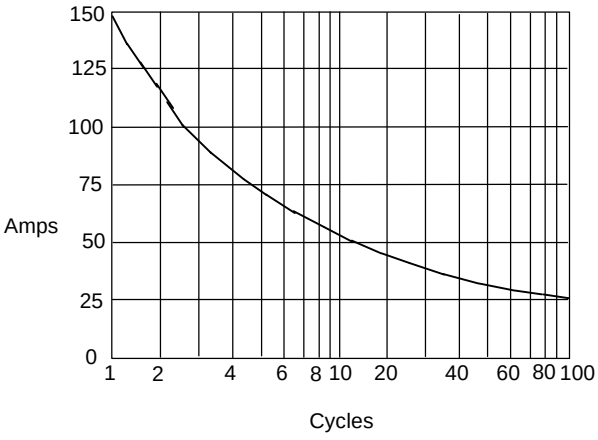
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

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