



Micro Commercial Components  
 21201 Itasca Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# MBRB2520CT THRU MBRB25100CT

## Features

- Meatl of Silicon Rectifier, Majority Conductor
- Guard ring for transient protection
- Low Forward Voltage Drop
- High Current Capability, High Efficiency
- Low Power Loss

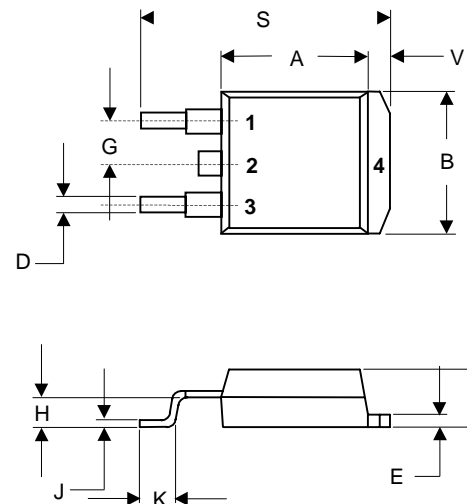
## 25 Amp Schottky Barrier Rectifier 20 to 100 Volts

## Maximum Ratings

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

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB2520CT	20V	14V	20V
MBRB2530CT	30V	21V	30V
MBRB2535CT	35V	24.5V	35V
MBRB2540CT	40V	28V	40V
MBRB2545CT	45V	31.5V	45V
MBRB2560CT	60V	42V	60V
MBRB2580CT	80V	56V	80V
MBRB25100CT	100V	70V	100V

## D<sup>2</sup>-PACK



## Electrical Characteristics @ 25°C Unless Otherwise Specified

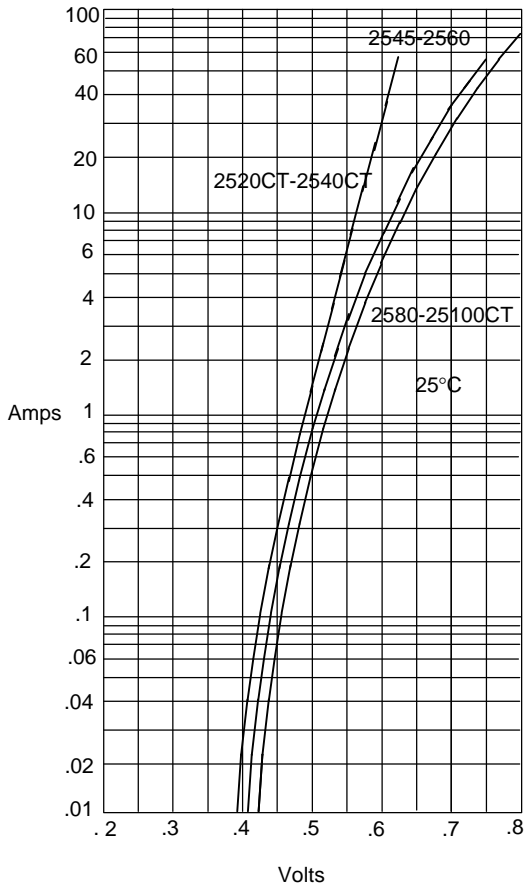
Average Forward Current	$I_{F(AV)}$	25 A	$T_A = 130^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.82V .75V .84V	$I_{FM} = 30\text{ A};$ $I_{FM} = 15\text{ A}$ $I_{FM} = 12.5\text{ A}$
2520CT-2540CT			
2545CT-2560CT			
2580CT-25100CT			
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.2mA	$T_A = 25^\circ\text{C}$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.340	.380	8.64	9.65	
B	.380	.405	9.65	10.29	
C	.160	.190	4.06	4.83	
D	.020	.035	.051	0.89	
E	.45	.055	1.14	1.40	
G	.100	BSC	2.54	BSC	
H	.080	.110	2.03	2.79	
J	.018	.025	0.46	0.64	
K	.090	.110	2.29	2.79	
S	.575	.625	14.60	15.88	
V	.045	.055	1.14	1.40	

\*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

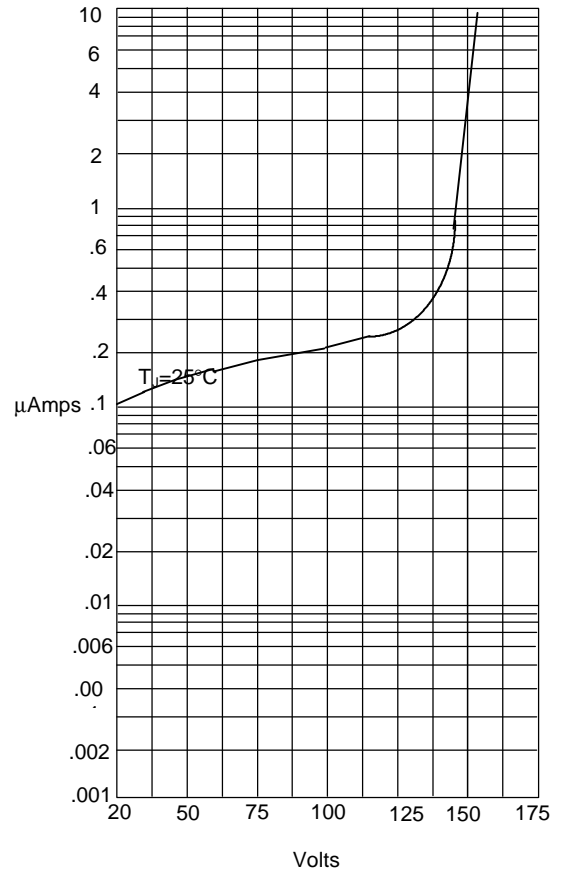
# MBRB2520CT thru MBRB25100CT

Figure 1  
Typical Forward Characteristics



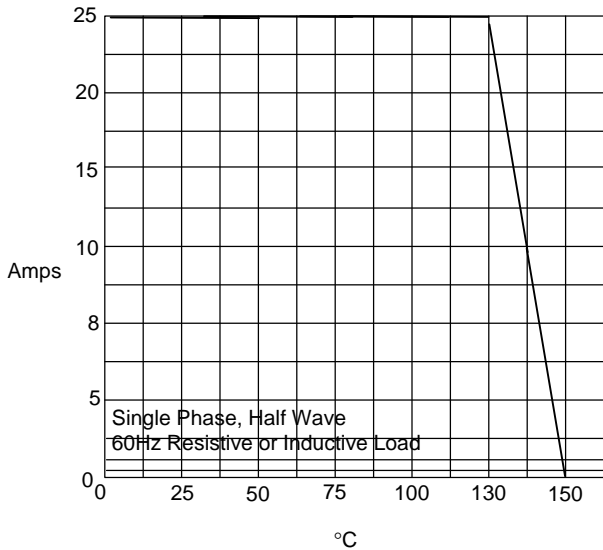
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

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