

Micro Commercial Components



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

Features

- Meatl of Silicon Rectifier, Majority Conduction
- Guard ring for transient protection
- High surge capacity
- High Current Capability, High Efficiency Halogen free available upon request by adding suffix "-HF"
- Marking : type number Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates
- RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

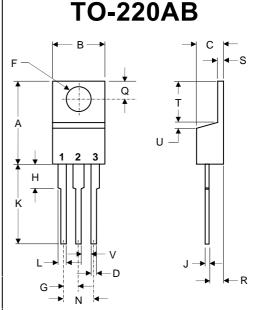
Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C
- Mounting Torque: 5 in-lbs Maximum

MCC Catalog	Maximum Recurrent	Maximum RMS	Maximum DC
Number	Peak Reverse Voltage	Voltage	Blocking Voltage
MBR2520CT	20V	14V	20V
MBR2530CT	30V	21V	30V
MBR2535CT	35V	24.5V	35V
MBR2540CT	40V	28V	40V
MBR2545CT	45V	31.5V	45V
MBR2560CT	60V	42V	60V

MBR2520CT THRU **MBR2560CT**

25 Amp Schottky **Barrier Rectifier** 20 to 100 Volts



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	25 A	T _c = 130°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 2520CT-2540CT 2545CT-2560CT	V _F	.82V .75V	I _{FM} = 25A; I _{FM} = 15A;per leg T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage 2520CT-2540CT 2545CT-2560CT	I _R	0.2mA 1mA	T _A = 25°C
Typical Junction Capacitance	C	450pF	Measured at 1.0MHz, V _R =4.0V

PIN 1 ⊶		PIN 2
PIN 3 •—	╺╺┝╸╴╴	CASE

	DIMENSIONS				
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
К	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
Ν	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

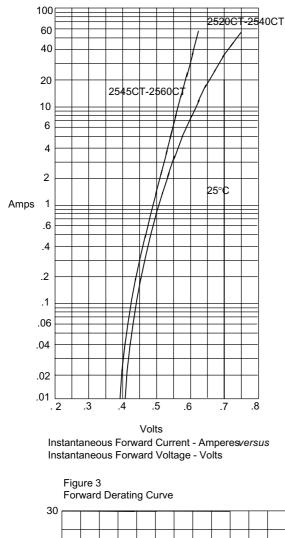
www.mccsemi.com

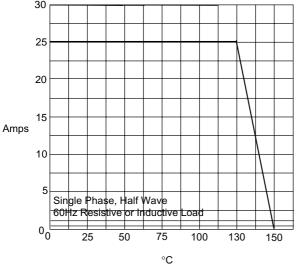


MBR2520CT thru MBR2560CT

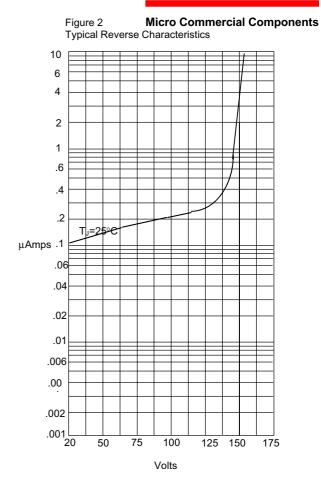
Figure 1

Typical Forward Characteristics

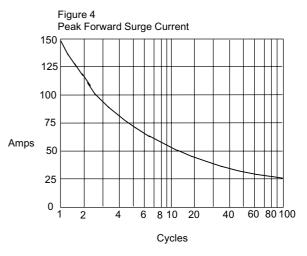




Average Forward Rectified Current - Amperes/ersus Case Temperature $-^\circ C$



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

- www.mccsemi.com



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com