

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

MBR3030CT **THRU MBR3060CT**

30 Amp Schottky Barrier Rectifier 30 to 60 Volts

Features

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

Maximum Ratings

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

MCC Part Number	Maximum Rcurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR3030CT	30V	21V	30V
MBR3035CT	35V	24.5V	35V
MBR3040CT	40V	28V	40V
MBR3045CT	45V	31.5V	45V
MBR3050CT	50V	35V	50V
MBR3060CT	60V	42V	60V

Hectrical Characteristics @25°CUhless Cherwise Specified

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Average Forward Current	I _{F(AV)}	30 A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MBR3030CT~3045CT MBR3050CT~3060CT	V _F	0.70V 0.84V 0.72V 0.80V 0.95V 0.85V	I _{FM} =15A; T _J =25°C I _{FM} =30A; T _J =25°C I _{FM} =30A; T _J =125°C I _{FM} =15A; T _J =25°C I _{FM} =30A; T _J =25°C I _{FM} =30A; T _J =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.2 mA	T _J = 25°C
Typical Junction Capacitance MBR3030CT-3045CT MBR3050CT-3060CT	CJ	450pF 400pF	Measured at 1.0MHz, V _R =4.0V

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

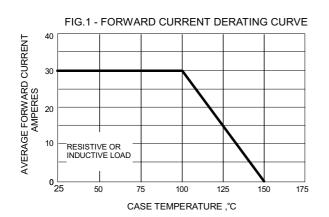
TO-220AB Н PIN 1 c PIN 2 PIN 3 o CASE

DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.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	
Ð	.190	.110	2.29	2.79		
Н		.250		6.35		
J	.012	.025	0.30	0.64		
K	.500	.580	12.70	14.73		
L	.045	.060	1.14	1.52		
Ν	.190	.210	4.83	5.33		
Ø	.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			

RATING AND CHARACTERISTIC CURVES MBR3030CT thru MBR3060CT



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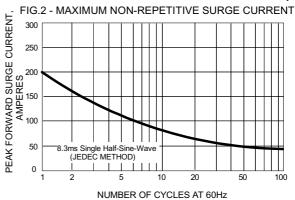


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

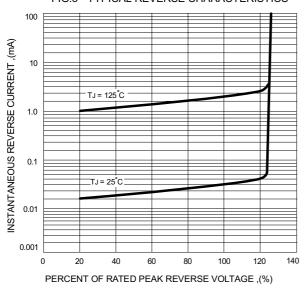


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

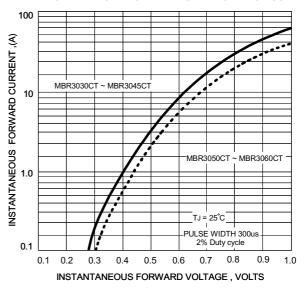
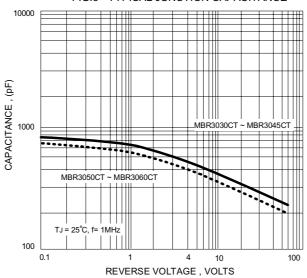


FIG.5 - TYPICAL JUNCTION CAPACITANCE





Ordering Information

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

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

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