

Micro Commercial Components



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Features

- Metal of silicon rectifier, majority carrier conduction
- Halogen free available upon request by adding suffix "-HF"
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability 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

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

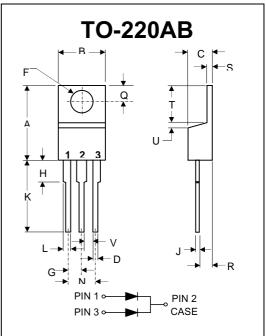
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
MBR1030CT	MBR1030CT	30V	21V	30V
MBR1035CT	MBR1035CT	35V	24.5V	35V
MBR1040CT	MBR1040CT	40V	28V	40V
MBR1045CT	MBR1045CT	45V	31.5V	45V
MBR1050CT	MBR1050CT	50V	35V	50V
MBR1060CT	MBR1060CT	60V	42V	60V

Bectrical Characteristics @25°CUhless Otherwise Specified

Average Forward Current	I _{F(AV)}	10A	T _C = 105°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MBR1030CT-45CT MBR1050CT-60CT MBR1030CT-45CT MBR1050CT-60CT	VF	.70V .80V .57V .65V	I _{FM} = 5A T _J = 25°C I _{FM} = 5A T _J = 125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.1mA 15mA	T _J = 25°C T _J = 125°C
Typical Junction Capacitance MBR1030CT-45CT MBR1050CT-60CT	0	170pF 220pF	Measured at 1.0MHz, V _R =4.0V

MBR1030CT THRU **MBR1060CT**

10 Amp Schottky Barrier Rectifier 30-60 Volts



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.

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RATING AND CHARACTERISTIC CURVES MBR1030CT thru MBR1060CT



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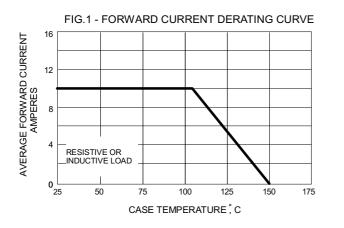


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

100

10

1.0

0.1

0.01

0.001

0

INSTANTANEOUS REVERSE CURRENT.(mA)

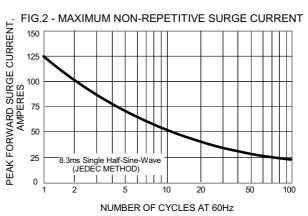
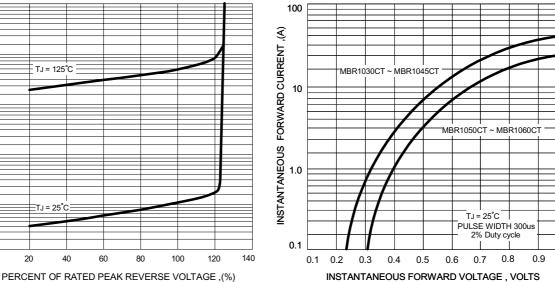
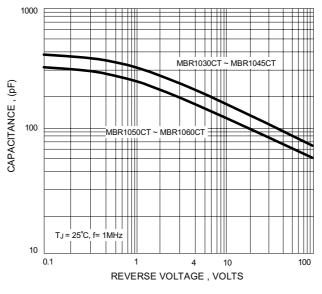


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

100 MBR1030CT MBR1045C1 10







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10



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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