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MBR20035CT
MBR20045CT
MBR20050CT
MBR20060CT

**SCHOTTKY BARRIER
 RECTIFIERS**

**200 AMPERES
 35 to 60 VOLTS**

MAXIMUM RATINGS

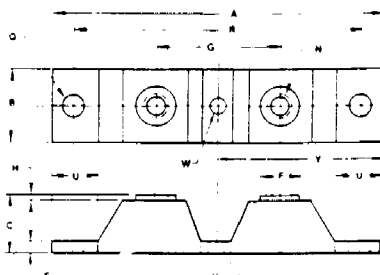
Rating	Symbol	Max	Unit
Peak Repetitive Reverse Voltage	MBR20035CT VRRM	35	Volts
Working Peak Reverse Voltage	MBR20045CT VRWM	45	
DC Blocking Voltage	MBR20050CT VR	50	
	MBR20060CT	60	
Average Rectified Forward Current Per Device (Rated VR) TC = 140°C	IF(AV)	200	Amps
	Per Leg	100	
Peak Repetitive Forward Current, Per Leg (Rated VR, Square Wave, 20 kHz), TC = 140°C	IFRM	200	Amps
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	IFSM	1500	Amps
Peak Repetitive Reverse Current, Per Leg (2.0 μs, 1.0 kHz) See Figure 6	IRRM	2.0	Amps
Operating Junction and Storage Temperature	TJ, Tstg	-65 to -175	°C
Voltage Rate of Change (Rated VR)	dv/dt	1000	V/μs

THERMAL CHARACTERISTICS PER LEG

Thermal Resistance, Junction to Case	RθJC	0.5	°C/W
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ELECTRICAL CHARACTERISTICS PER LEG

Instantaneous Forward Voltage (1) (IF = 200 Amp, TJ = 175°C) (IF = 200 Amp, TJ = 125°C) (IF = 100 Amp, TJ = 125°C) (IF = 100 Amp, TJ = 25°C)	VF	0.650 0.825 0.710 0.800	Volts
Instantaneous Reverse Current (1) (Rated dc Voltage, TJ = 125°C) (Rated dc Voltage, TJ = 25°C)	IR	50 0.5	mA



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	-	92.20	-	3.630
B	1.77	2.32	0.700	0.800
C	-	15.87	-	0.625
E	3.05	3.30	0.120	0.130
F	12.45	12.95	0.490	0.510
G	34.92 BSC	-	1.375 BSC	-
H	-	1.27	-	0.050
N	-	-	174.20 UNC	-
Q	5.86	7.11	0.270	0.280
R	80.01 BSC	-	3.150 BSC	-
U	15.24	-	0.600	-
V	8.38	8.89	0.330	0.350
W	4.32	4.83	0.170	0.190
Y	40.00 BSC	-	1.575 BSC	-

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.



Quality Semi-Conductors