



Micro Commercial Components

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MBR3030CT THRU MBR3060CT

Features

- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : type number

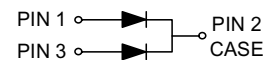
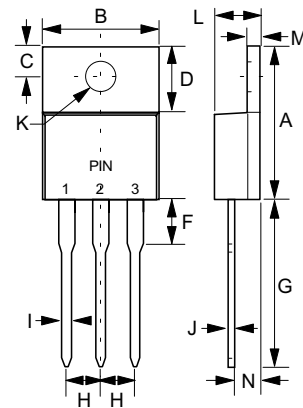
Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C

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

30 Amp Schottky Barrier Rectifier 30 to 60 Volts

TO-220AB



Electrical Characteristics @ 25°C Unless Otherwise Specified

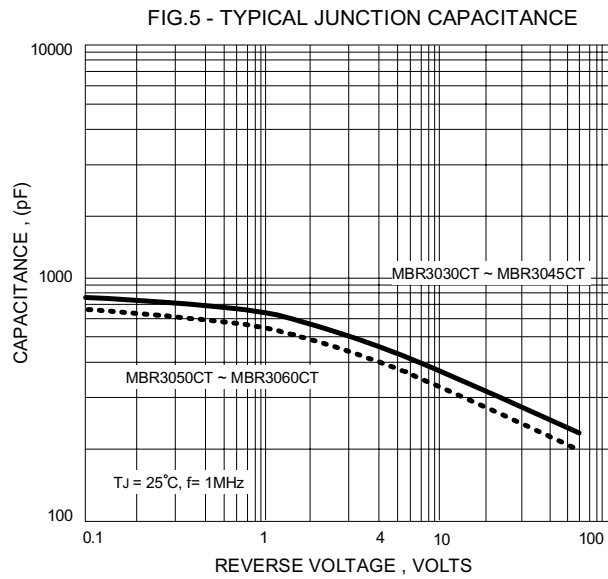
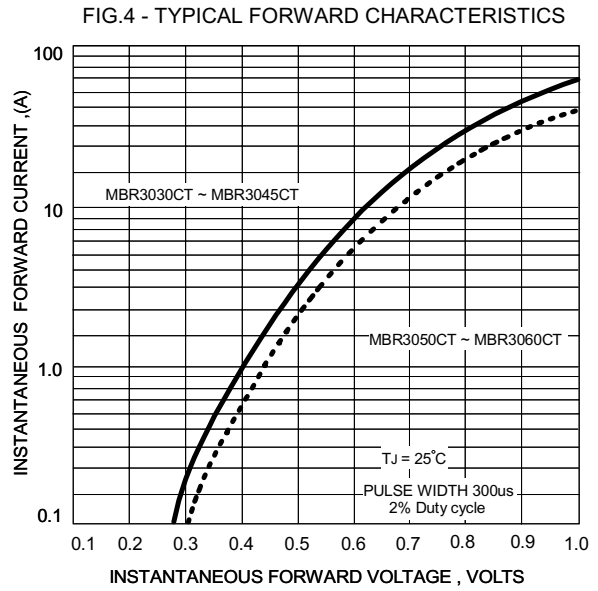
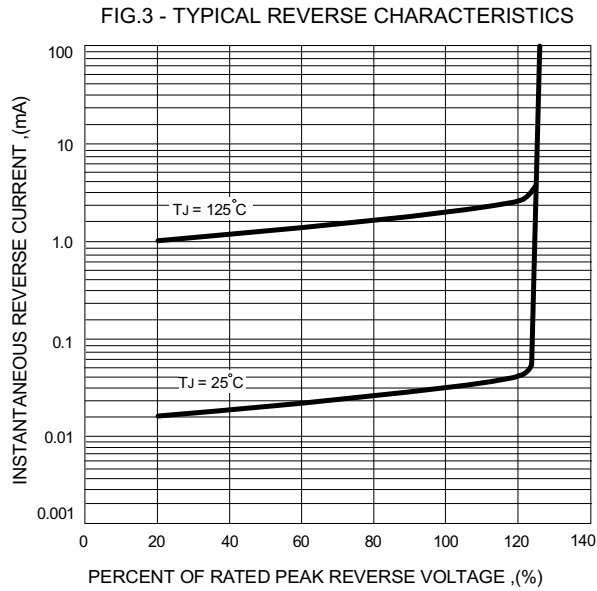
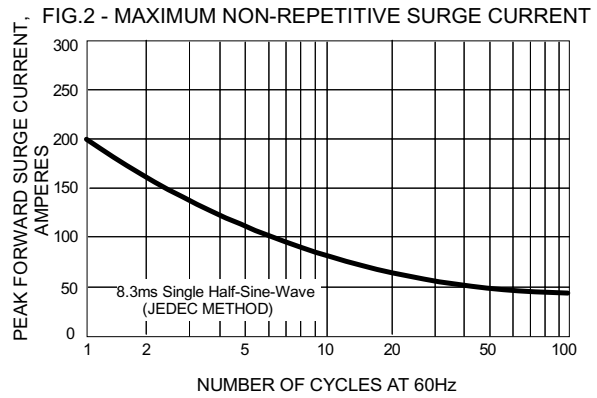
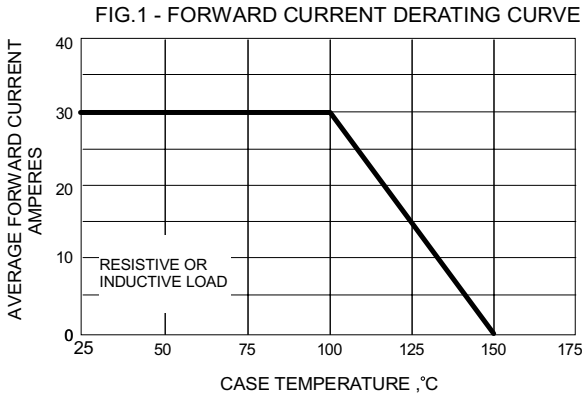
Average Forward Current	$I_{F(AV)}$	30 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MBR3030CT~3045CT	V_F	0.70V	$I_{FM}=15A ; T_J=25^\circ\text{C}$
		0.84V	$I_{FM}=30A ; T_J=25^\circ\text{C}$
		0.72V	$I_{FM}=30A ; T_J=125^\circ\text{C}$
Maximum Instantaneous Forward Voltage MBR3050CT~3060CT	V_F	0.80V	$I_{FM}=15A ; T_J=25^\circ\text{C}$
		0.95V	$I_{FM}=30A ; T_J=25^\circ\text{C}$
		0.85V	$I_{FM}=30A ; T_J=125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.2 mA	$T_J = 25^\circ\text{C}$
Typical Junction Capacitance MBR3030CT-3045CT MBR3050CT-3060CT	C_J	450pF 400pF	Measured at 1.0MHz, $V_R=4.0V$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
F	-----	.250	-----	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	∅
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

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

www.mccsemi.com

**RATING AND CHARACTERISTIC CURVES
 MBR3030CT thru MBR3060CT**





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