

# MBR1030CT-MBR1060CT

## 10 AMP SCHOTTKY RECTIFIERS

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS

Rating	MBR1030CT	MBR1035CT	MBR1040CT	MBR1045CT	MBR1050CT	MBR1060CT	Unit
Maximum recurrent peak reverse voltage	30	35	40	45	50	60	V
Maximum RMS voltage	21	24.5	28	31.5	35	42	V
Maximum DC blocking voltage	30	35	40	45	50	60	V
Operating temperature range	-55 to +150						°C
Storage temperature range	-55 to +175						°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Test Condition
Average forward current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> = 105°C
Peak forward surge current	I <sub>FSM</sub>	125A	8.3ms, half sine
Maximum forward voltage drop per element	V <sub>F</sub>	0.70V	I <sub>FM</sub> = 5A
MBR1030CT-MBR1045CT		0.80V	T <sub>J</sub> = 25°C
MBR1050CT-MBR1060CT		0.57V	I <sub>FM</sub> = 5A
MBR1030CT-MBR1045CT		0.65V	T <sub>J</sub> = 125°C
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	0.1mA	T <sub>J</sub> = 25°C
		15mA	T <sub>J</sub> = 125°C
Typical junction capacitance	C <sub>J</sub>	170pF	Measured at 1.0MHz, V <sub>R</sub> = 4.0V
MBR1030CT-MBR1045CT		220pF	
MBR1050CT-MBR1060CT			

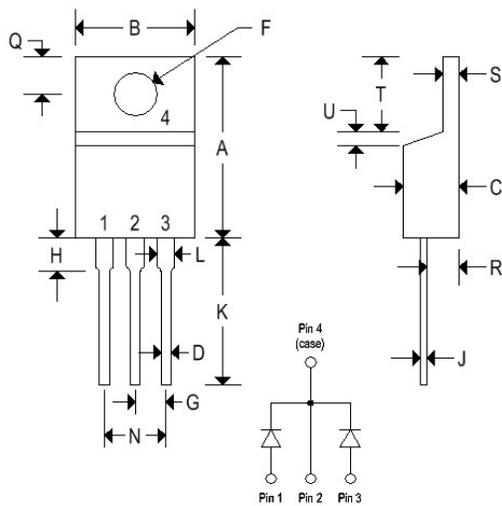
Pulse test : Pulse width 300µsec, duty cycle 2%.

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### MECHANICAL CHARACTERISTICS

Case	TO-220AB
Marking	Alpha-numeric
Pin out	Cathode band



	TO-220AB			
	Inches		Millimeters	
	Min	Max	Min	Max
A	0.570	0.620	14.480	15.750
B	0.380	0.405	9.660	10.280
C	0.160	0.190	4.070	4.820
D	0.025	0.035	0.640	0.880
F	0.142	0.147	3.610	3.730
G	0.095	0.105	2.420	2.660
H	0.110	0.155	2.800	3.930
J	0.018	0.025	0.460	0.640
K	0.500	0.562	12.700	14.270
L	0.045	0.060	1.150	1.520
N	0.190	0.210	4.830	5.330
Q	0.100	0.120	2.540	3.040
R	0.080	0.110	2.040	2.790
S	0.045	0.055	1.150	1.390
T	0.235	0.255	5.970	6.470
U	-	0.050	-	1.270

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