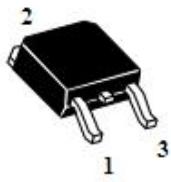


MBR2060GCT&MBR2060DCT

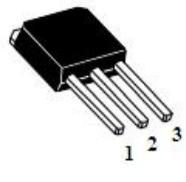
20.0AMPS. SCHOTTKY BARRIER RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed
260°C /10seconds, 0.25"(6.35mm)from case.



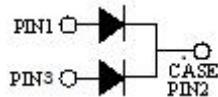
TO-252
MBR2060GCT



TO-251
MBR2060DCT

MECHANICAL DATA

- . Case: Molded with UL-94 Class V-0 recognized
Flame Retardant Epoxy
- . Mounting position: any



Single phase, half wave, 60Hz,resistive or inductive load.

For capacitive load, derate current by 20%

MAXIMUM RATINGS (T_c=25°C unless otherwise noted)

Parameter	Symbol	MBR2060GCT&MBR2060DCT		Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60		V
Maximum RMS Voltage	V_{RMS}	42		V
Maximum DC blocking Voltage	V_{DC}	60		V
Maximum Average Forward Rectified Current at T _c =100°C	$I_{F(AV)}$	10.0 20.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150.0		A
Typical Junction Capacitance (Note 1)	C_J	300		pF
Operation Junction Temperature and Storage Temperature	T_J, T_{STG}	-55 to +150		°C

ELECTRICAL CHARACTERISTICS - (Per Leg) (T_c=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Typ	Max	Units
Forward voltage drop	V_F	T _j =25°C I _F =3A	0.49	----	V
		I _F =10A	0.66	0.75	
		T _j =125°C I _F =3A	0.42	----	
		I _F =10A	0.58	0.67	
Reverse leakage current	I_R	T _j =25°C $V_R=60V$	----	0.1	mA
		T _j =125°C $V_R=60V$	----	10	

THERMAL CHARACTERISTICS(T_c=25°C unless otherwise noted)

Parameter	Symbol	MBR2060GCT	MBR2060DCT	Units
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	6.5	6.5	°C/W

Notes:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Case

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

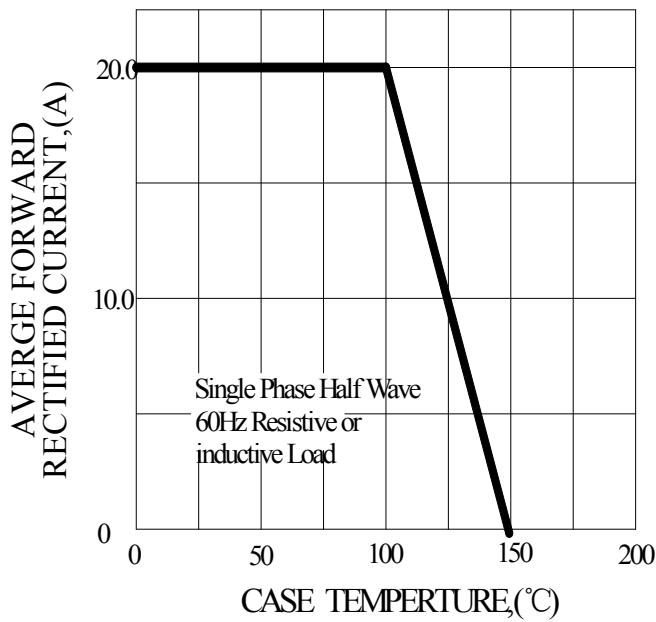


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

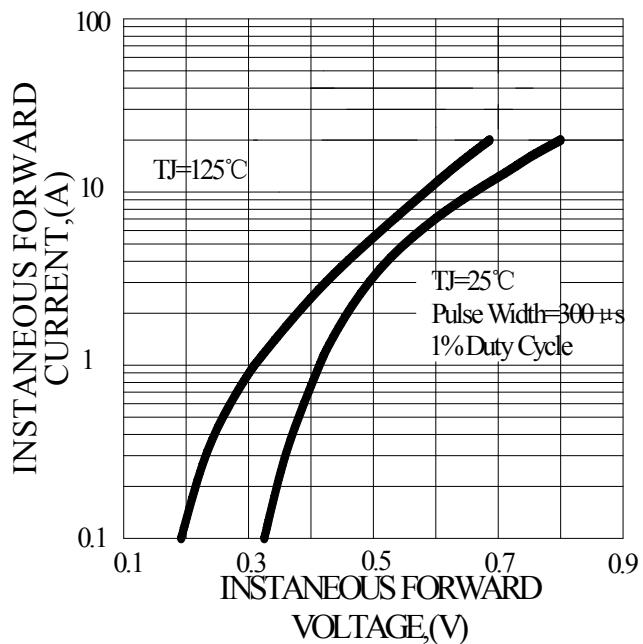


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

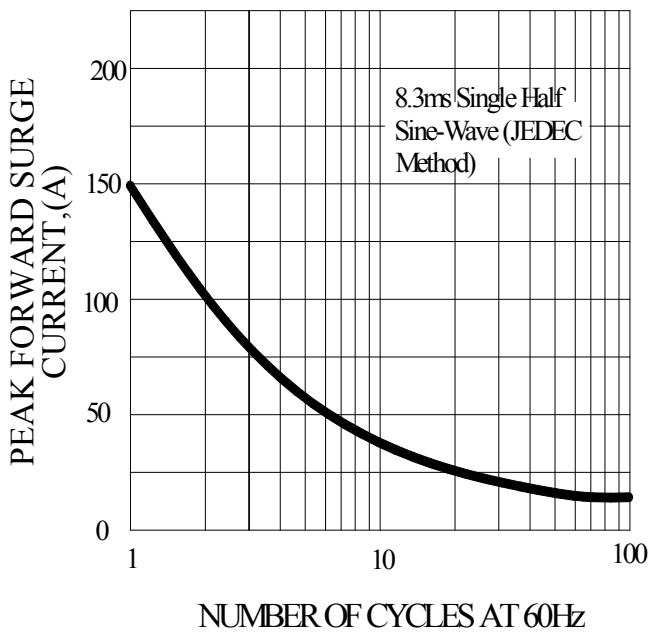
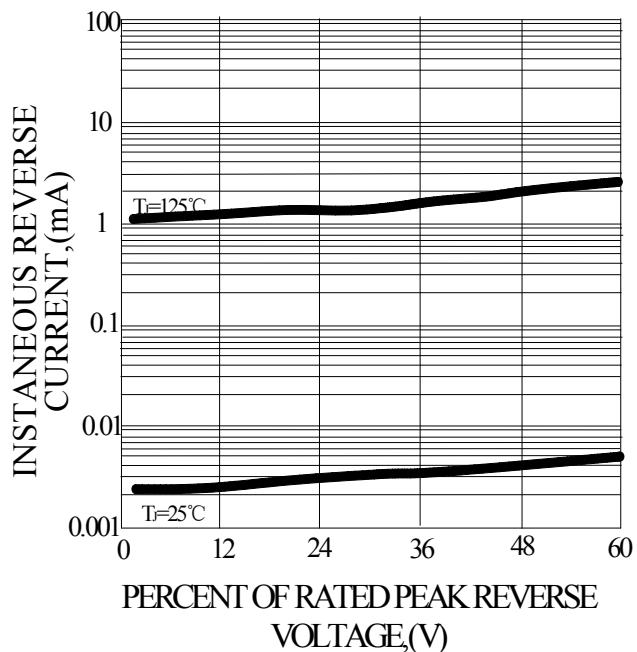
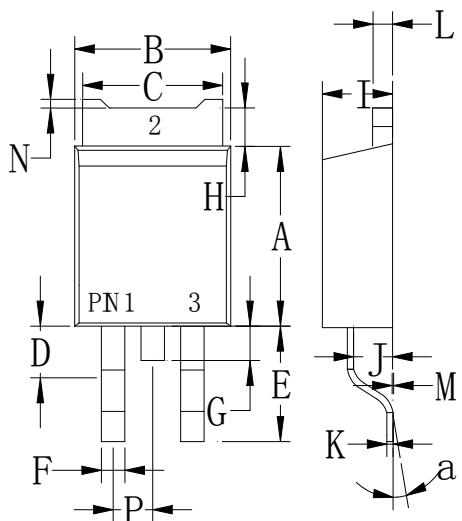


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

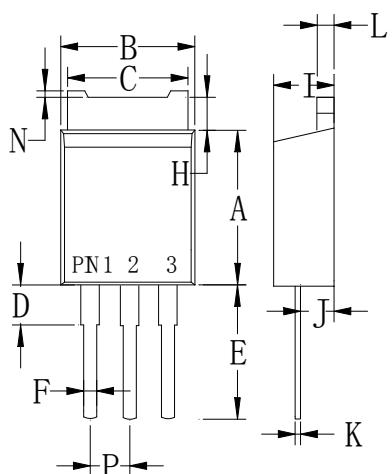
TO-252



TO-252		
Dim	Min	Max
A	.230 (5.85)	.246 (6.25)
B	.250 (6.35)	.264 (6.75)
C	.207 (5.27)	.218 (5.54)
D	.037 (0.93)	.045 (1.14)
E	.106 (2.70)	.138 (3.50)
F	.028 (0.72)	.033 (0.84)
G	.024 (0.60)	.041 (1.05)
H	.028 (0.72)	.043 (1.10)
I	.085 (2.15)	.096 (2.45)
J	.037 (0.95)	.047 (1.20)
K	.018 (0.45)	.026 (0.65)
L	.018 (0.45)	.024 (0.60)
P	.081 (2.05)	.094 (2.40)
M	.000 (0.00)	.006 (0.15)
N	--	.008 (0.20)
a	0°	10°

Dimensions in inches and (millimeters)

TO-251



TO-251		
Dim	Min	Max
A	.230 (5.85)	.246 (6.25)
B	.250 (6.35)	.266 (6.75)
C	.207 (5.27)	.218 (5.54)
D	.037 (0.93)	.045 (1.14)
E	.173 (4.40)	.205 (5.20)
F	.028 (0.72)	.033 (0.84)
G	.028 (0.70)	.043 (1.10)
I	.085 (2.15)	.096 (2.45)
J	.037 (0.95)	.047 (1.20)
K	.018 (0.45)	.026 (0.65)
L	.018 (0.45)	.024 (0.60)
N	--	.008 (0.20)
P	.081 (2.05)	.094 (2.40)

Dimensions in inches and (millimeters)

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