



**浩畅半导体**  
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## MBR2020CT

20.0 AMPS. Schottky Barrier Rectifiers

# 产 品 规 格 书

# 承 认 书

客户确认：

公司签章：

部门	工程部	品保部	采购部
签名			
日期			

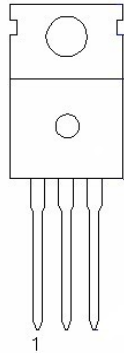
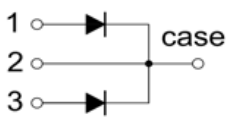


# MBR20200CT

20.0 AMPS. Schottky Barrier Rectifiers

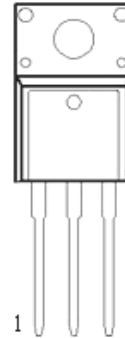
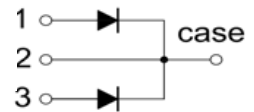
## TO-220AB

- 1. ANODE
- 2. CATHODE
- 3. ANODE



## TO-220F

- 1. ANODE
- 2. CATHODE
- 3. ANODE



### MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted )

Symbol	Parameter	Value	Unit
$V_{RRM}$	Peak repetitive reverse voltage	200	V
$V_{RWM}$	Working peak reverse voltage		
$V_R$	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse voltage	140	V
$I_O$	Average rectified output current	20	A
$I_{FSM}$	Non-Repetitive peak forward surge current 8.3ms half sine wave	150	A
$P_D$	Power dissipation	2	W
$R_{\theta JA}$	Thermal resistance from junction to ambient	50	$^{\circ}\text{C/W}$
$T_j$	Junction temperature	125	$^{\circ}\text{C}$
$T_{stg}$	Storage temperature	-55~+150	$^{\circ}\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ unless otherwise specified )

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=1\text{mA}$	200			V
Reverse current	$I_R$	$V_R=200\text{V}$			100	$\mu\text{A}$
Forward voltage	$V_{F1}$	$I_F=10\text{A}$			1	V
	$V_{F2}^*$	$I_F=20\text{A}$			1.2	V
Typical total capacitance	$C_{tot}$	$V_R=5\text{V}, f=1\text{MHz}$		500		pF

# MBR2035CT-MBR20200CT

FIG.1- FORWARD CURRENT DERATING CURVE

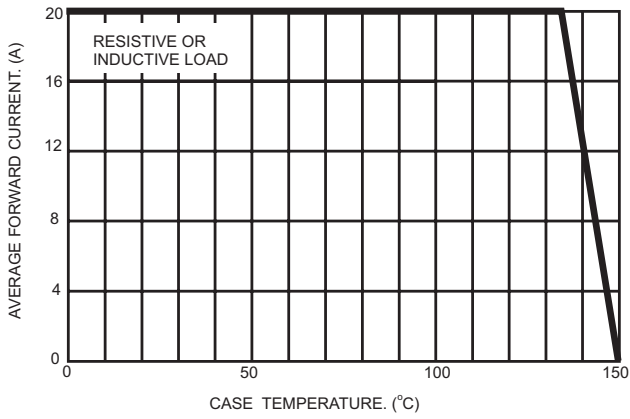


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

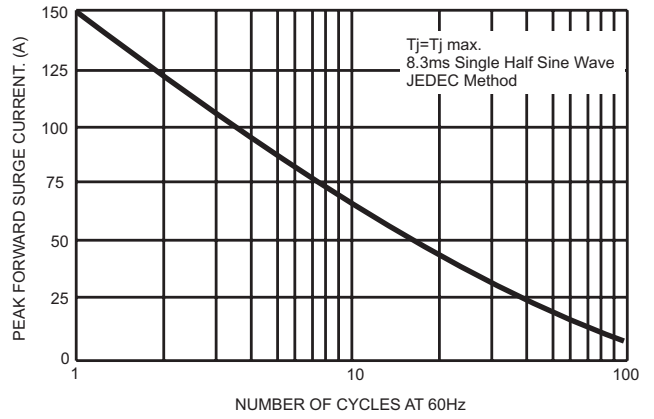


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

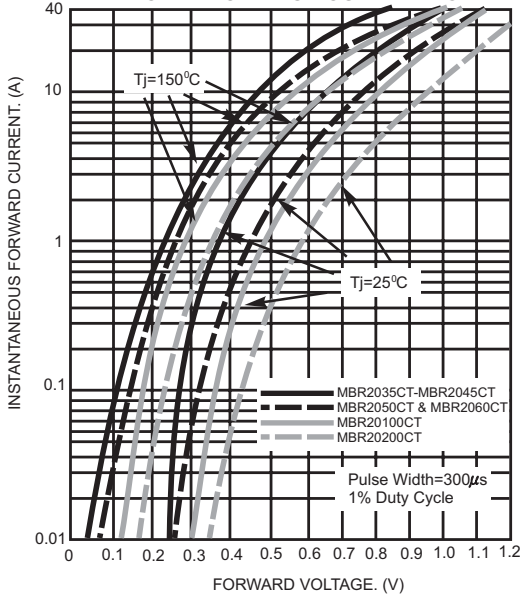


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

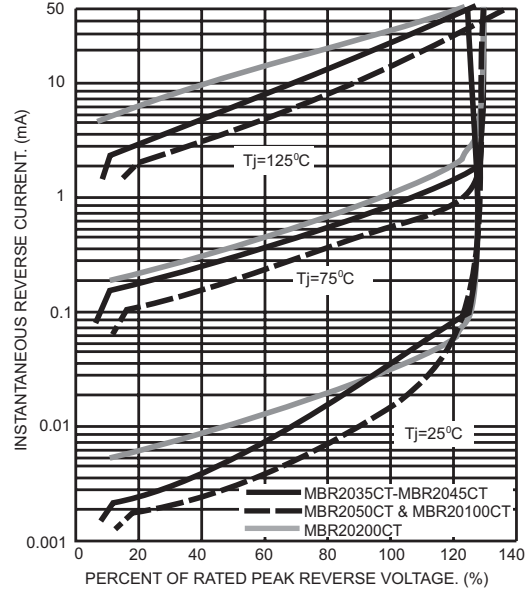


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

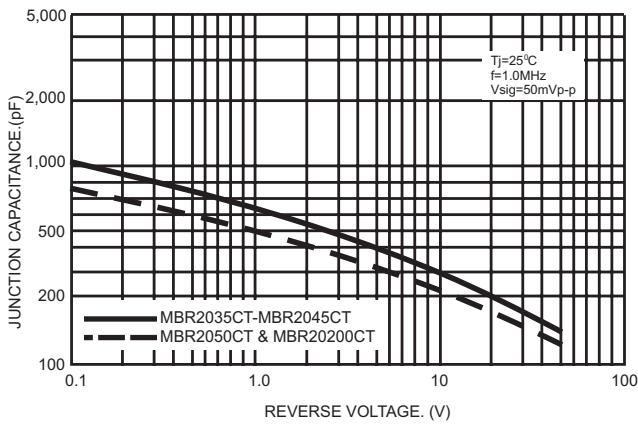


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG

