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## MBR10200CT

10.0 AMPS. Schottky Barrier Rectifiers

# 产 品 规 格 书

# 承 认 书

客户确认：

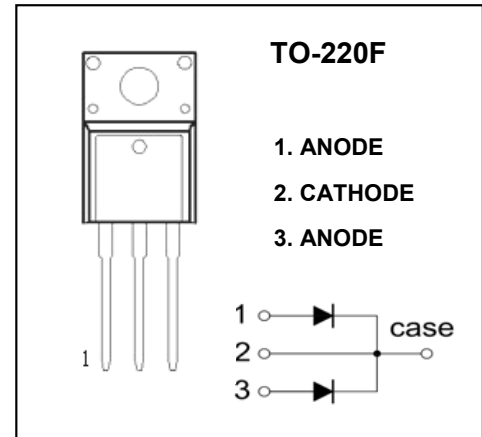
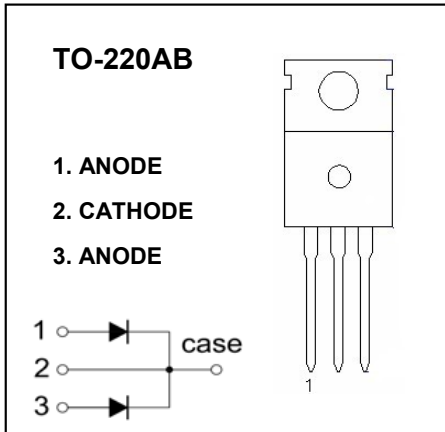
公司签章：

部门	工程部	品保部	采购部
签名			
日期			



# MBR10200CT

10.0 AMPS. Schottky Barrier Rectifiers



## 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	10	A
$I_{FSM}$	Non-Repetitive peak forward surge current 8.3ms half sine wave	120	A
$P_D$	Power dissipation	2	W
$R_{\theta JA}$	Thermal resistance from junction to ambient	50	$^\circ\text{C}/\text{W}$
$T_j$	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	$V_{(BR)}$	$I_R=100\mu\text{A}$	200			V
Reverse current	$I_R$	$V_R=200\text{V}$			50	$\mu\text{A}$
Forward voltage	$V_{F(1)}$	$I_F=5\text{A}$			0.92	V
	$V_{F(2)}^*$	$I_F=10\text{A}$			1.1	V
Typical total capacitance	$C_{tot}$	$V_R=4\text{V}, f=1\text{MHz}$		50		pF

# MBR1030CT-MBR10200CT

FIG.1- FORWARD CURRENT DERATING CURVE

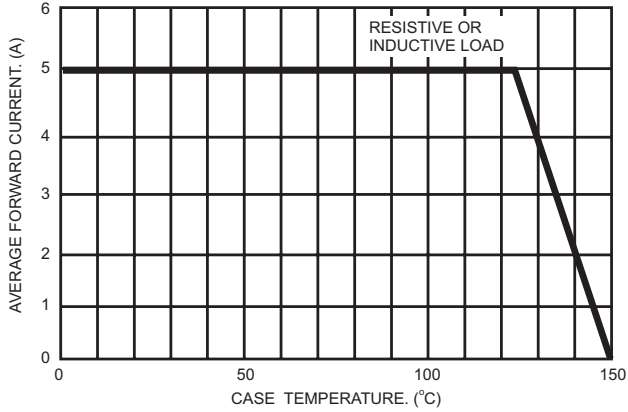


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

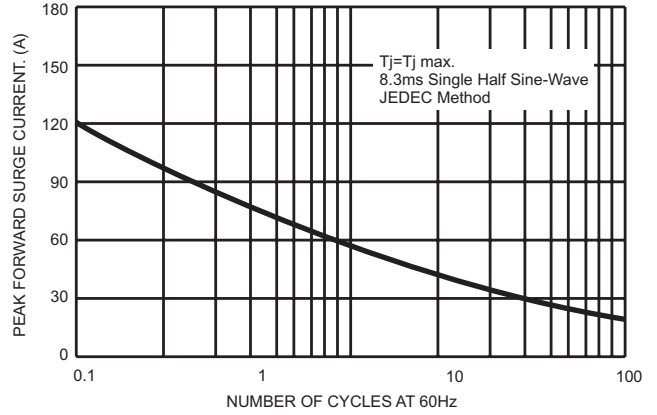


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

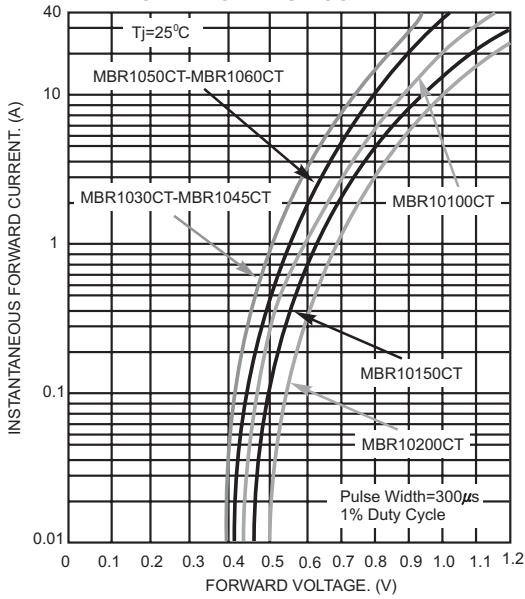


FIG.4- TYPICAL REVERSE CHARACTERISTICS

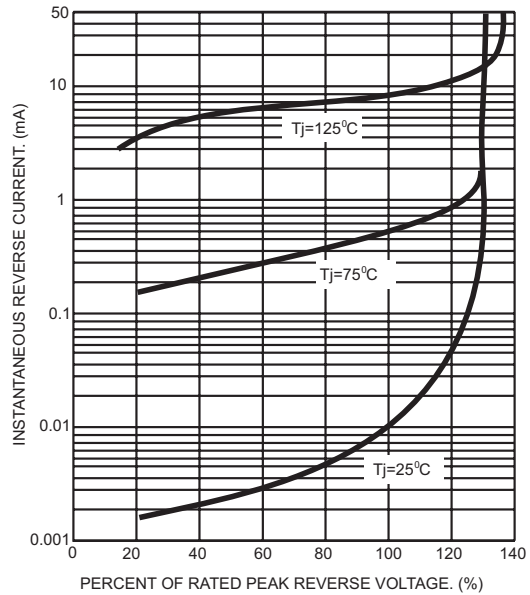


FIG.5- TYPICAL JUNCTION CAPACITANCE

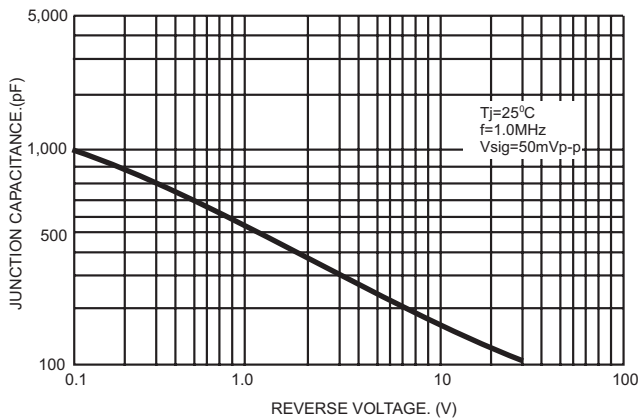


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS PER LEG

