



MBR1060CT

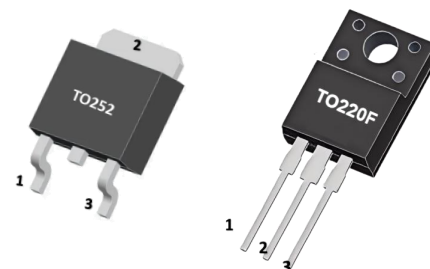
SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

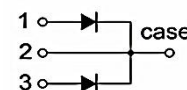
The MBR1060CT meet the ROHS and Green Product requirement with full function reliability approved.

FEATURE

- *Schottky Barrier Chip
- *Guard Ring Die Construction for Transient Protection
- *Low Power Loss,High Efficiency
- *High Surge Capability
- *High Current Capability and Low Forward Voltage Drop
- *For Use in Low Voltage, High Frequency Inverters,Free Wheeling, and Polarity Protection Applications



1. ANODE
2. CATHODE
3. ANODE



MARKING



HY : HY LOGO

MBR1060CT=Device Code

XXXX=Date Code

Solid Dot=Green molding compound

ABSOLUTE MAXIMUM RATINGS(TA=25°C, unless otherwise specified.)

SYMBOL	PARAMETER		VALUE	UNIT
VRRM	Peak repetitive reverse voltage		60	V
VRWM	Working peak reverse voltage		60	V
VR	DC blocking voltage		60	V
VR(RMS)	RMS reverse voltage		42	V
IO	Average rectified output current		10	A
IFSM	Non-Repetitive peak forward surge current(8.3ms half sine wave)		120*2	A
Tj	Junction temperature		150	°C
Tstg	Storage temperature		-55~+150	°C
RθJA	Thermal Resistance fromJunction to Ambient	TO-252	110	°C/W
		TO-220F	60	
RθJC	Thermal Resistance From Junction To Case	TO-252	6	°C/W
		TO-220F	4	

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.



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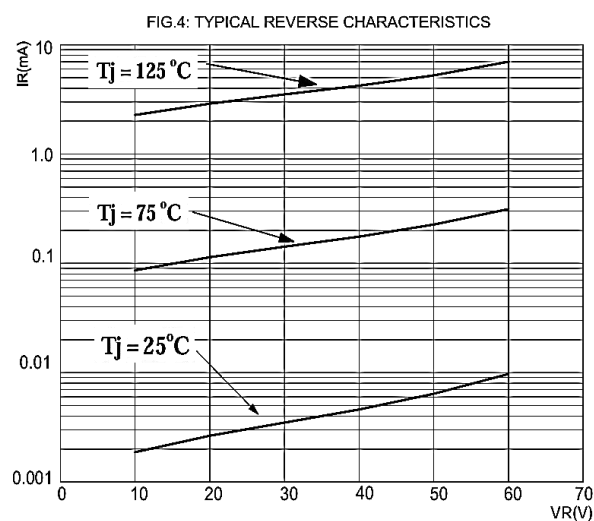
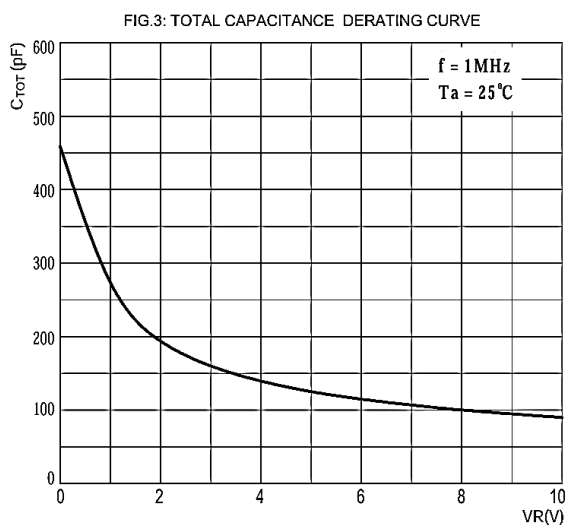
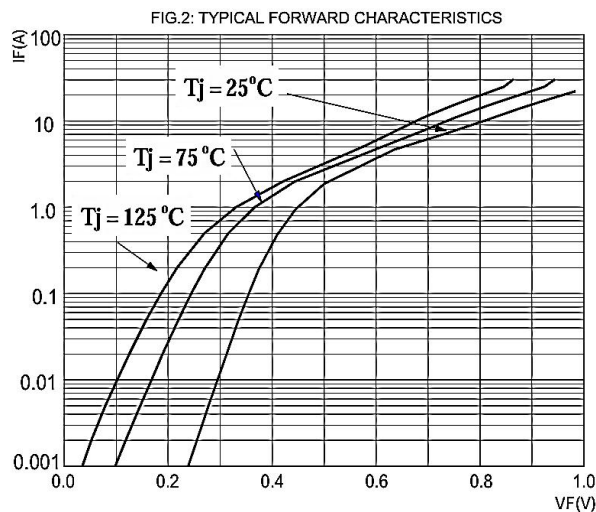
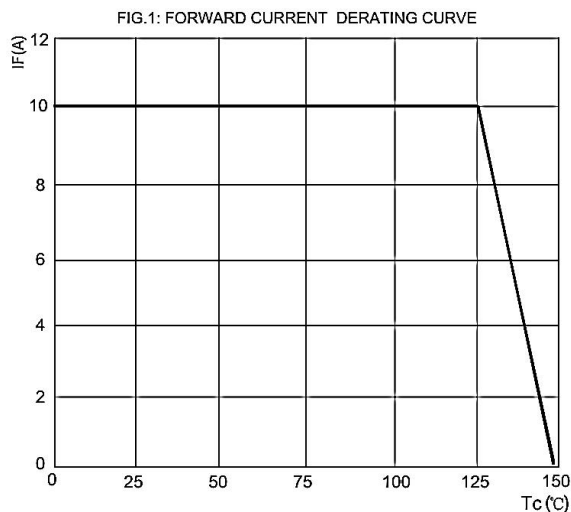
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■ ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	$V_{(BR)}$	$I_R=0.1mA$	60			V
Reverse current	I_R	$V_R=60V$		10	50	μA
Forward voltage	V_{F1}	$I_F=3A$	$T_J=25^\circ C$	0.57		V
	V_{F2}	$I_F=5A$		0.67	0.72	V
	V_{F3}	$I_F=10A$			0.95	V

*Pulse test: pulse width $\leq 300\mu s$, duty cycles $\leq 2.0\%$.

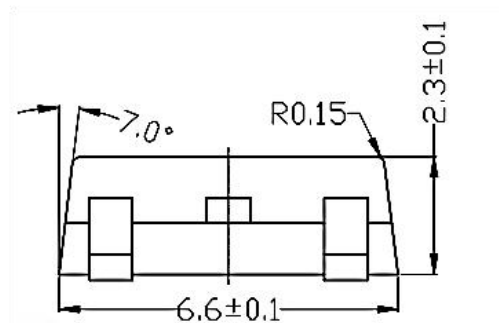
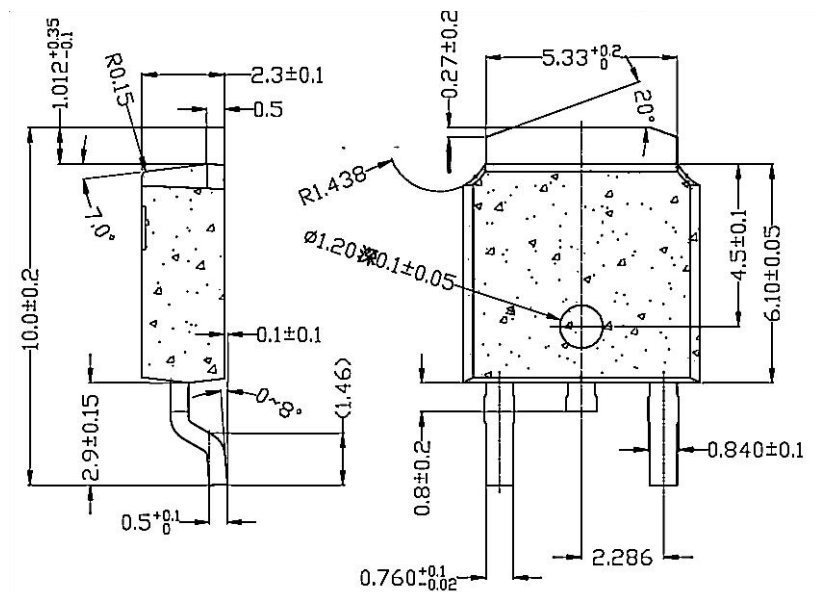
■ TYPICAL CHARACTERISTICS



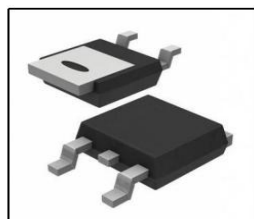
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SCHOTTKY BARRIER RECTIFIER

■ TO - 252 Package Outline Dimensions



■ TO - 252 Packing Information



2500PC
S/reel



2 Reel/BOX



Outer box



Inner box

Package version	Reel dimensions $\Phi \times H$ (mm)	Per Reel (pcs)	Reels per box	Inner box dimensions $L \times W \times H$ (mm)	Outer box (pcs)	Outer box dimensions $L \times W \times H$ (mm)
T0-252	$\Phi 330 \times 20$	2500	2	360*340*50	25000	375*375*280

