



MBR30150CT

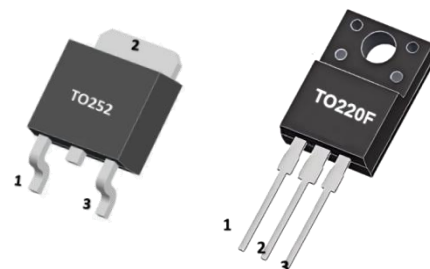
SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The MBR30150CT meet the ROHS and Green Product requirement with full function reliability approved.

FEATURE

- *Guard Ring Die Construction for Transient Protection
- *Low Power Loss,High Efficiency
- *High Current Capability and Low Forward Voltage Drop



1. ANODE
2. CATHODE
3. ANODE

MARKING

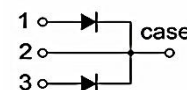


HY : HY LOGO

MBR30150CT=Device Code

XXXX=Date Code

Solid Dot=Green molding compound



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

Symbol	Parameter		VALUE	Unit
V_{RRM}	Peak repetitive reverse voltage		150	V
V_{RWM}	Working peak reverse voltage			
V_R	DC blocking voltage			
V_{R(RMS)}	RMS reverse voltage		105	V
I_O	Average rectified output current		30(15*2)	A
I_{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)		200*2	A
R_{ΘJc}	Thermal resistance from junction to case ,Tc=25℃	TO-252	2	℃/W
		TO-220F	3.0	
R_{ΘJA}	Thermal resistance from junction to ambient	TO-252	62	℃/W
		TO-220F	62.5	
T_j	Junction temperature		175	℃
T_{stg}	Storage temperature		-55~+150	℃

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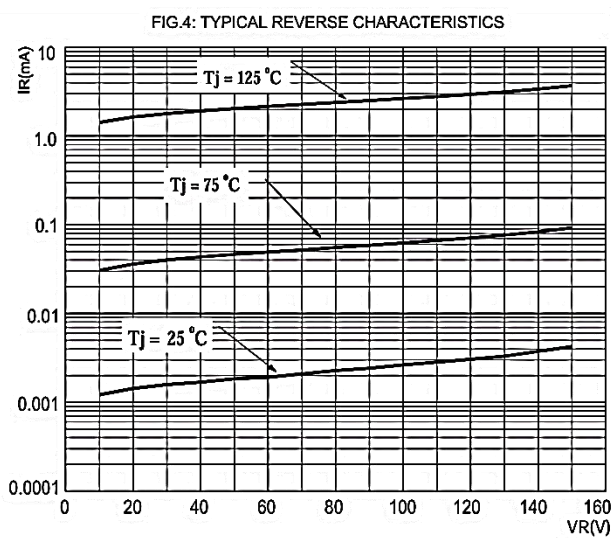
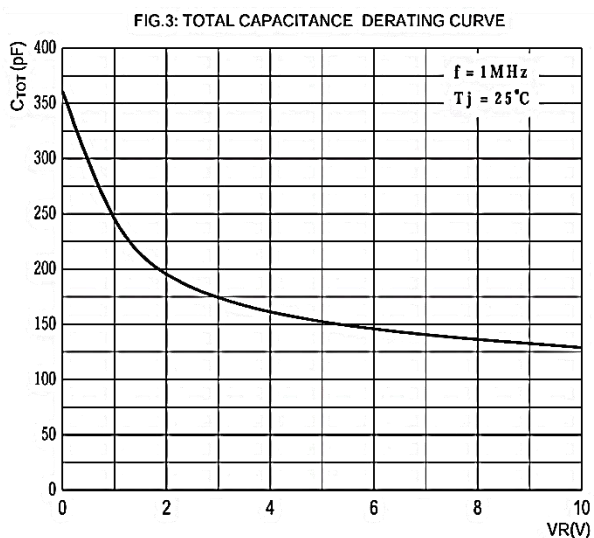
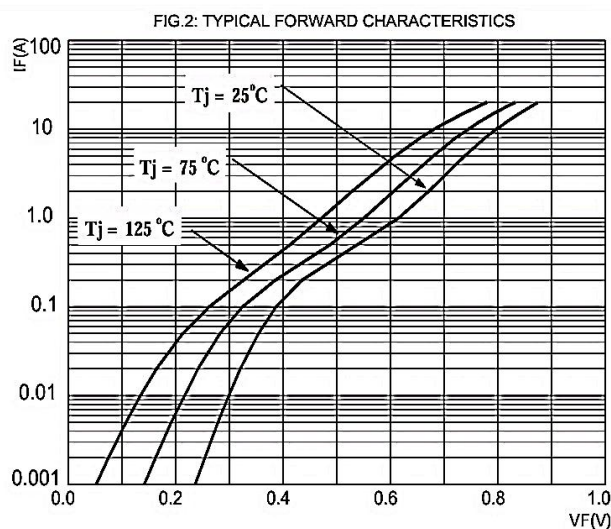
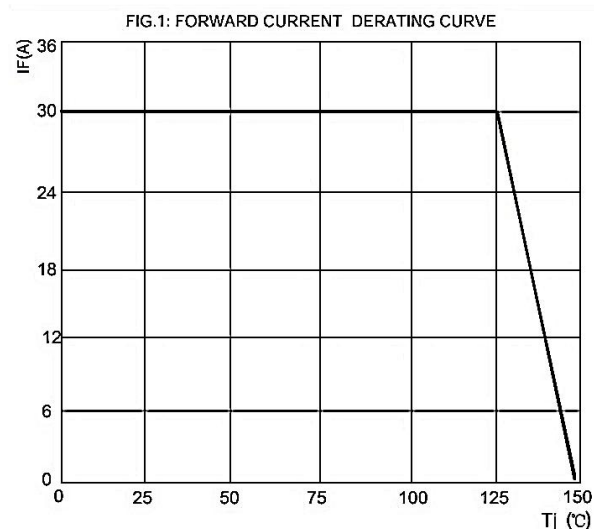
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■ ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

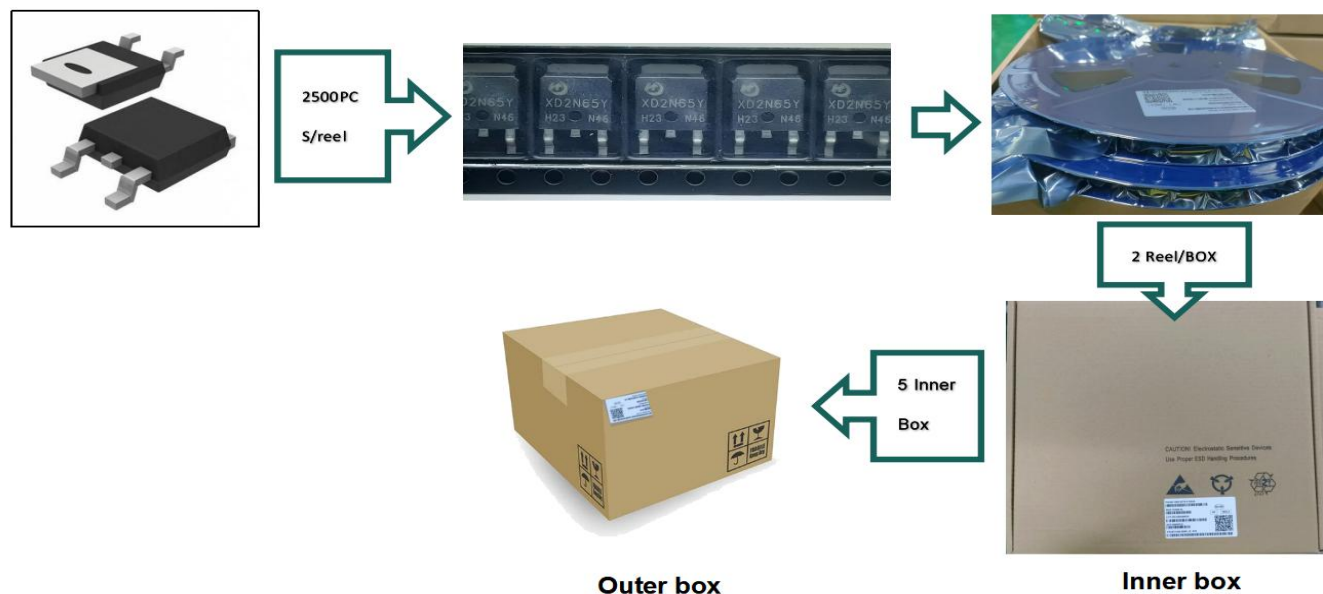
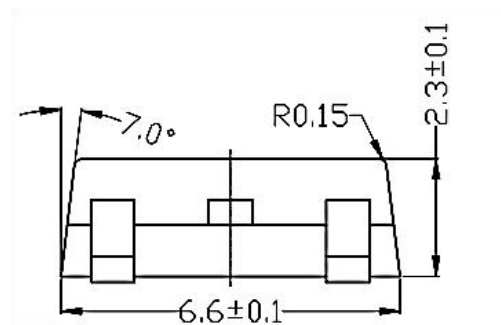
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	$V_{(BR)}$	$I_R=0.1mA$	150			V
Reverse current	I_R	$V_R=150V$	$T_J=25^{\circ}C$	5.0	100	μA
			$T_J=125^{\circ}C$	5.0		mA
Forward voltage	V_F	$I_F=10A$	$T_J=25^{\circ}C$	0.822	0.86	V
			$T_J=125^{\circ}C$	0.68		V
		$I_F=15A$	$T_J=25^{\circ}C$	0.856	0.90	V
			$T_J=125^{\circ}C$	0.74		V

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

■ TYPICAL CHARACTERISTICS



SCHOTTKY BARRIER RECTIFIER



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