



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

MARKING

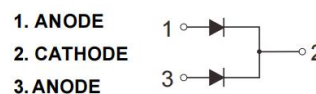
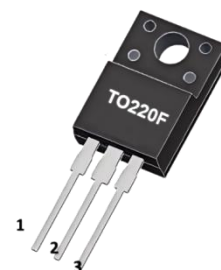


HY : HY LOGO

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	A
I_{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	200	A
$R_{\theta Jc}$	Thermal resistance from junction to case , Tc=25 °C	5.0	°C/W
$R_{\theta JA}$	Thermal resistance from junction to ambient	100	°C/W
T_j	Junction temperature	175	°C
T_{stg}	Storage temperature	-55~+150	°C

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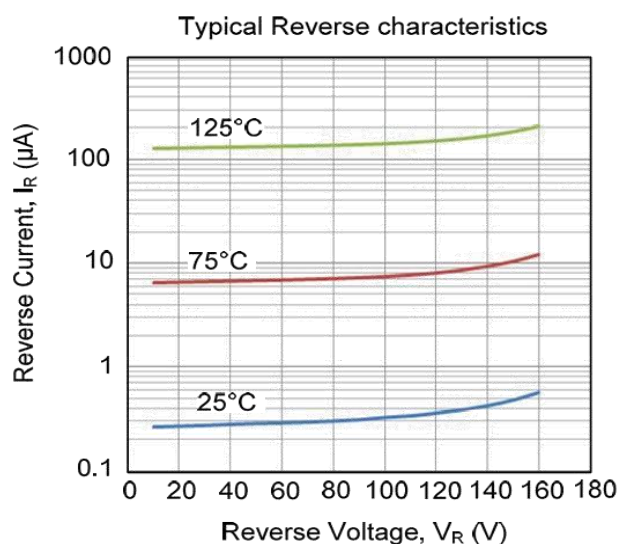
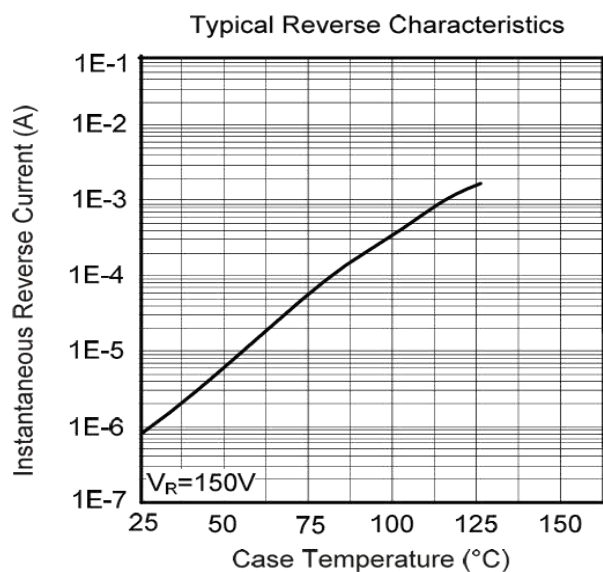
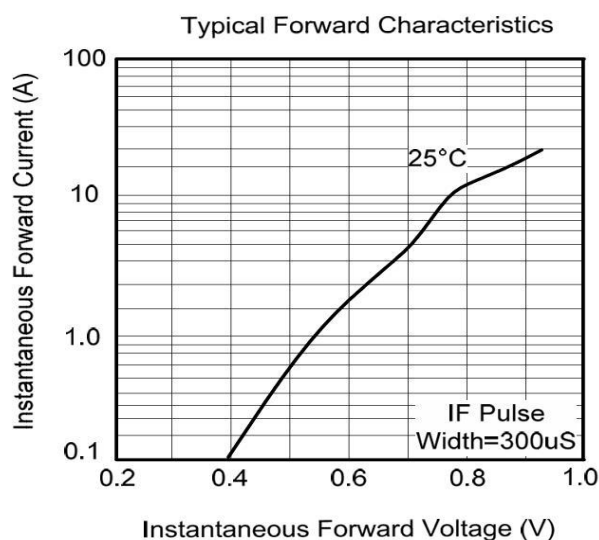
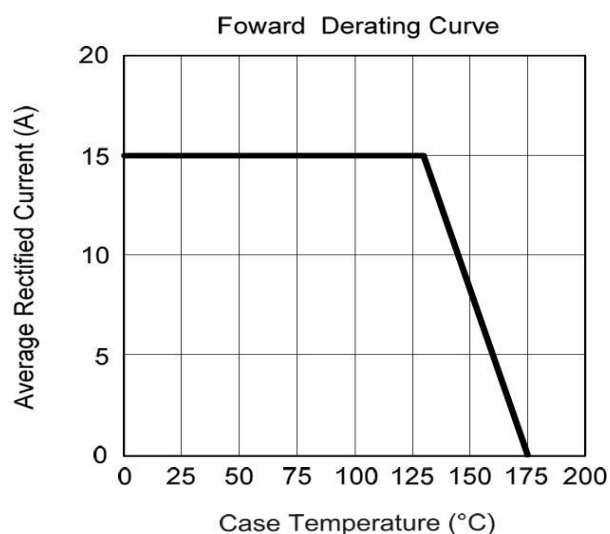
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■ ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	$V_{(BR)}$	$I_R=1mA$	150			V
Reverse current	I_R	$V_R=150V$			100	μA
Forward voltage	V_F	$I_F=3A$ $T_j=25^\circ C$		0.65		V
		$I_F=15A$ $T_j=25^\circ C$			0.95	V

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

■ TYPICAL CHARACTERISTICS



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Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max	Min	Max
A	4.300	4.750	0.169	0.185
A1	1.830 REF		0.072 REF	
A2	2.300	2.850	0.090	0.112
A3	2.500	2.900	0.098	0.114
b	0.400	0.420	0.016	0.016
b1	1.220	1.280	0.048	0.050
C	0.690	0.720	0.027	0.028
c	0.490	0.510	0.019	0.020
D	9.960	10.200	0.392	0.400
E	15.000	15.950	0.588	0.625
e	2.574 TYP		0.101TYP	
F	3.470 REF		0.136 REF	
y	3.200 REF		0.125 REF	
h	0.000	0.300	0.000	0.012
L	28.780	28.900	1.128	1.133
L1	2.990	3.100	0.117	0.122

Package version	Tube dimensions LxWxH (mm)	Per Tube (pcs)	Tube per box	Inner box dimensions LxWxH (mm)	PCS/ Inner box	Outer box dimensions LxWxH(mm)	PCS/ Outer box
TO-220F	530*32*7	50	20	580*155*50	1000	602*277*188	5000