



MBR2065CT

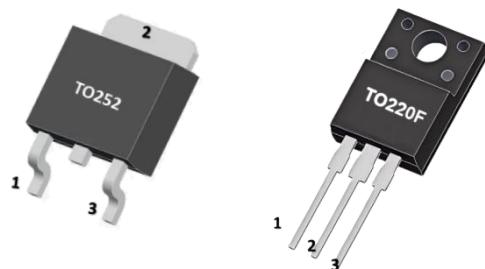
SCHOTTKY BARRIER RECTIFIER

■ DESCRIPTION

The MBR2065CT meet the ROHS and Green Product requirement with full function reliability approved.

■ FEATURE

- *High Surge Capacity
- *For Use In Low Voltage,High Frequency Inverters, Free Wheeling and Polarity Protection Applications.
- *Metal Silicon Junction, Majority Carrier Conduction.
- *High Current Capacity,Low Forward Voltage Drop.
- *Guard Ring for Over Voltage Protection.



1. ANODE
2. CATHODE
3. ANODE

■ MARKING

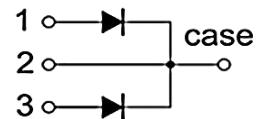


: HY LOGO

MBR2065CT=Device Code

XXXX=Date Code

Solid Dot=Green molding compound



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

SYMBOL	PARAMETER	VALUE	UNIT
VR_{RM}	Peak repetitive reverse voltage	65	V
VR_{WM}	Working peak reverse voltage	65	V
VR	DC blocking voltage	65	V
VR(RMS)	RMS reverse voltage	45.5	V
I_O	Average rectified output current	20 (10*2)	A
I_{FSM}	Non-Repetitive peak forward surge current(8.3ms half sine wave)	150*2	A
T_j	Junction temperature	150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C
R_{θJA}	Thermal Resistance from Junction to Ambient	TO-252	100
		TO-220F	58
R_{θJC}	Thermal Resistance From Junction To Case	TO-252	5
		TO-220F	3

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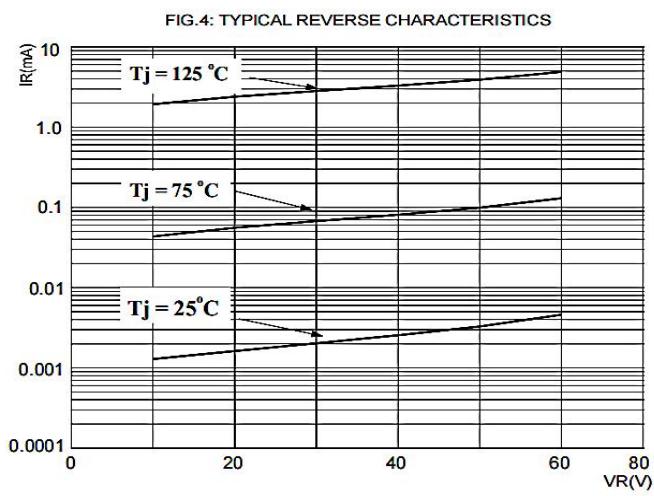
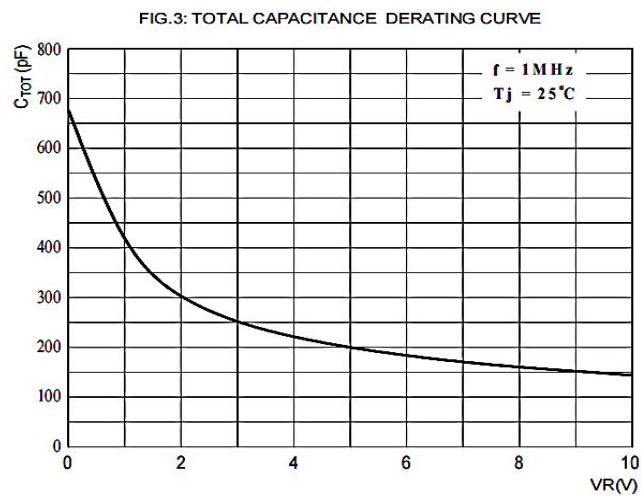
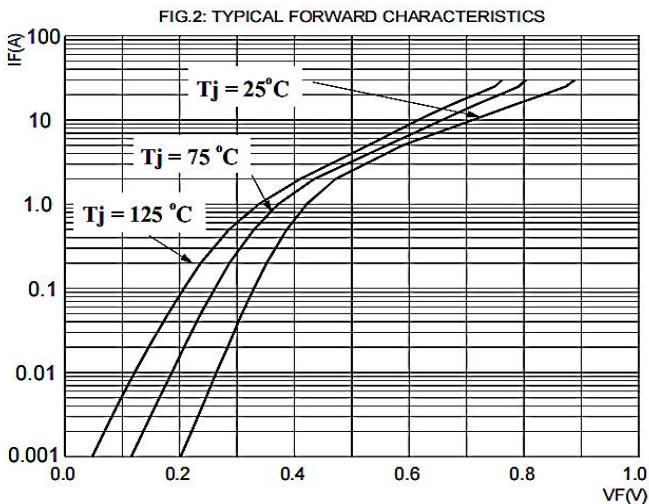
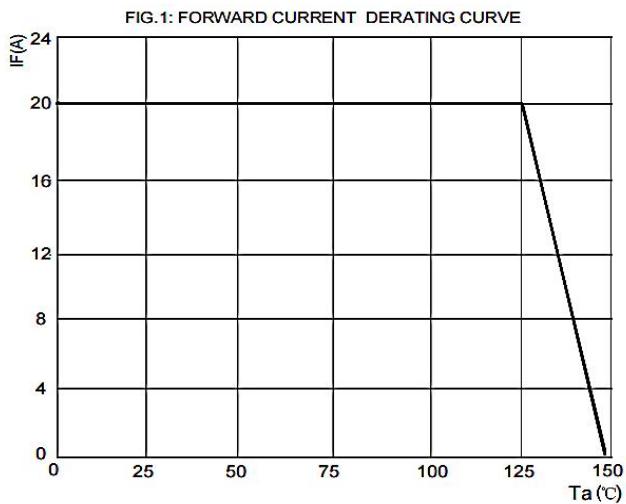
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■ ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Reverse voltage	V(BR)	IR=0.1mA		65			V
Reverse current	IR	VR=65V	Tj =25°C		5	50	uA
			Tj =125°C		5.0		mA
Forward voltage	VF	IF=5A	Tj =25°C		0.60		V
			Tj =125°C		0.54		V
		IF=10A	Tj =25°C		0.72	0.75	V
			Tj =125°C		0.62		V

*Pulse test: pulse width ≤300μs, duty cycle≤ 2.0%

■ TYPICAL CHARACTERISTICS

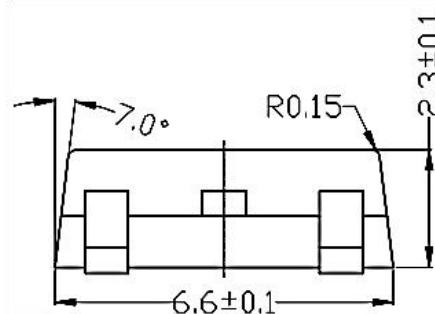
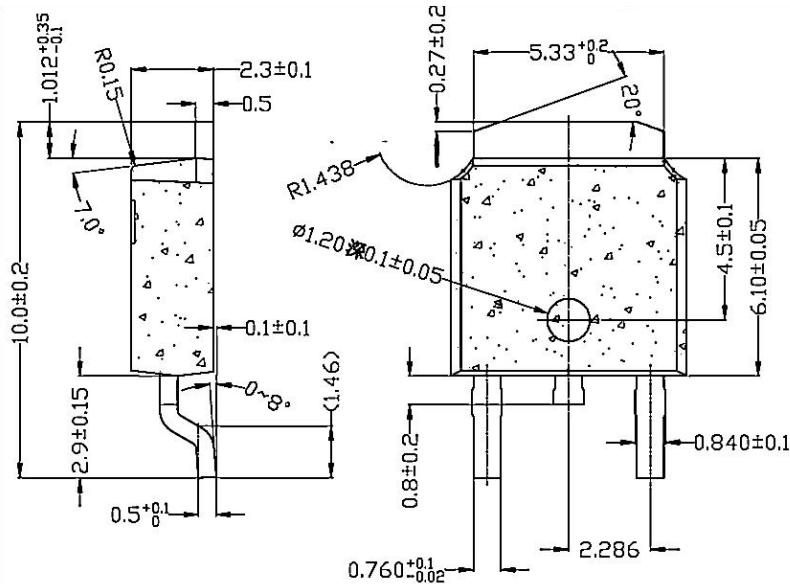




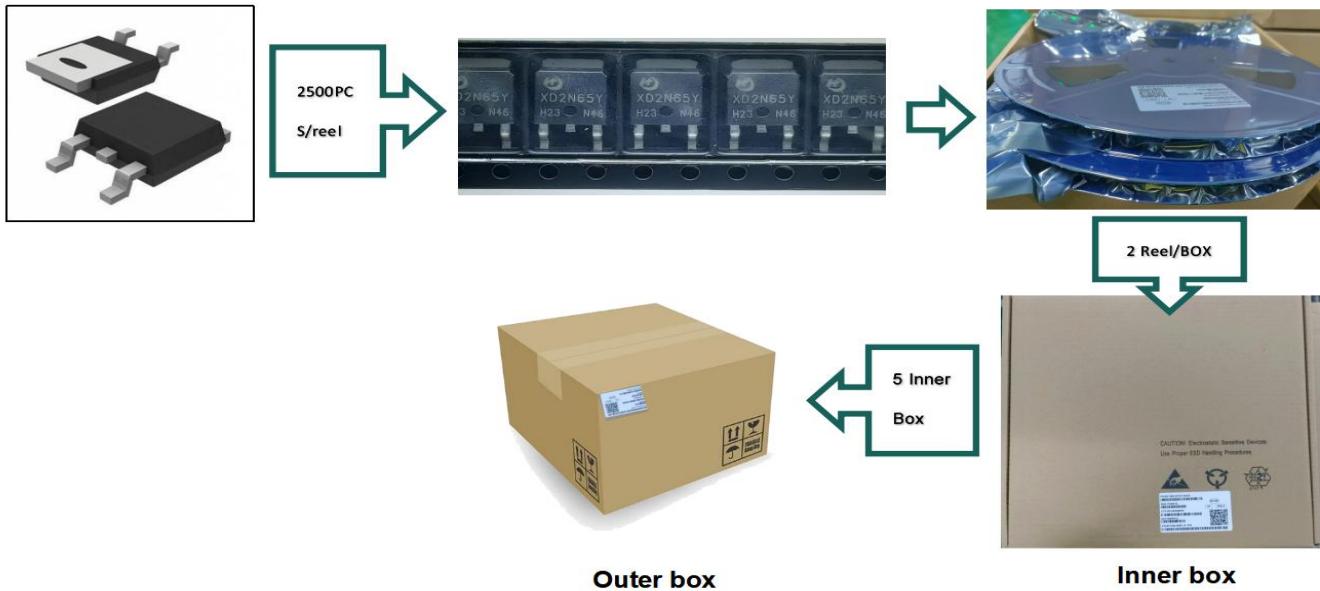
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SCHOTTKY BARRIER RECTIFIER

■ TO - 252 Package Outline Dimensions



■ TO - 252 Packing Information



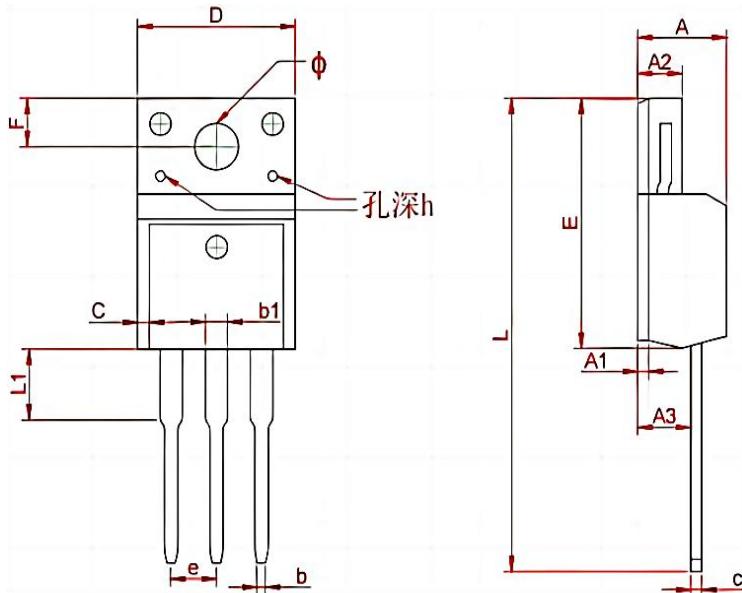
Package version	Reel dimensions $\phi \times H$ (mm)	Per Reel (pcs)	Reels per box	Inner box dimensions L×W×H (mm)	Outer box (pcs)	Outer box dimensions L×W×H (mm)
T0-252	$\phi 330 \times 20$	2500	2	360*340*50	25000	375*375*280



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■ TO - 220F Package Outline Dimensions

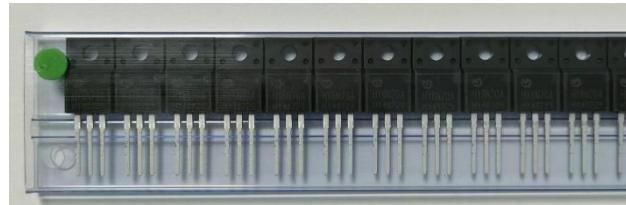


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max	Min	Max
A	4.300	4.750	0.169	0.185
A1	1.830 REF		0.072 REF	
A2	2.300	2.850	0.090	0.112
A3	2.500	2.900	0.098	0.114
b	0.400	0.420	0.016	0.016
b1	1.220	1.280	0.048	0.050
C	0.690	0.720	0.027	0.028
c	0.490	0.510	0.019	0.020
D	9.960	10.200	0.392	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

■ TO - 220F Packing Information



50PCS



20 Tube



Outer Box

5 Inner Box



Inner Box

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