



MBR1065CT

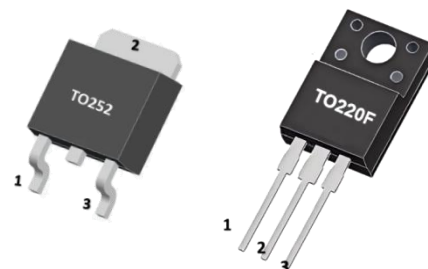
SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

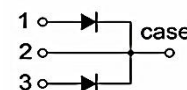
The MBR1065CT meet the ROHS and Green Product requirement with full function reliability approved.

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

MBR1065CT=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		65	V
VRWM	Working peak reverse voltage		65	V
VR	DC blocking voltage		65	V
VR(RMS)	RMS reverse voltage		45.5	V
IO	Average rectified output current		10	A
IFSM	Non-Repetitive peak forward surge current(8.3ms half sine wave)		100*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.



MBR1065CT

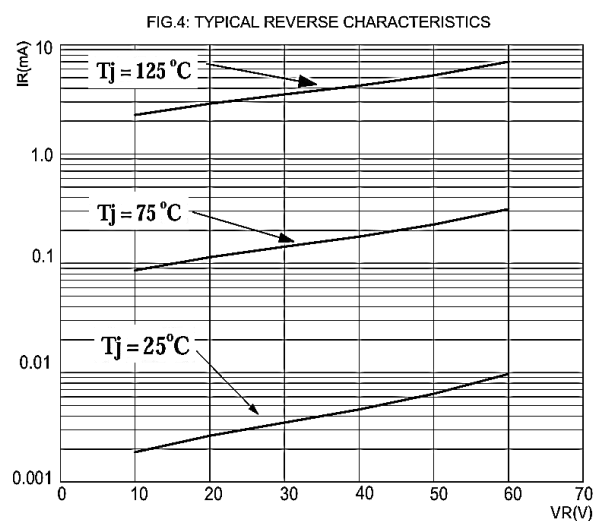
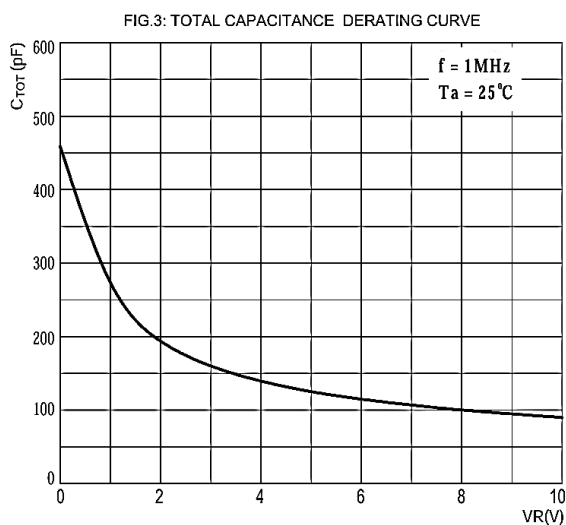
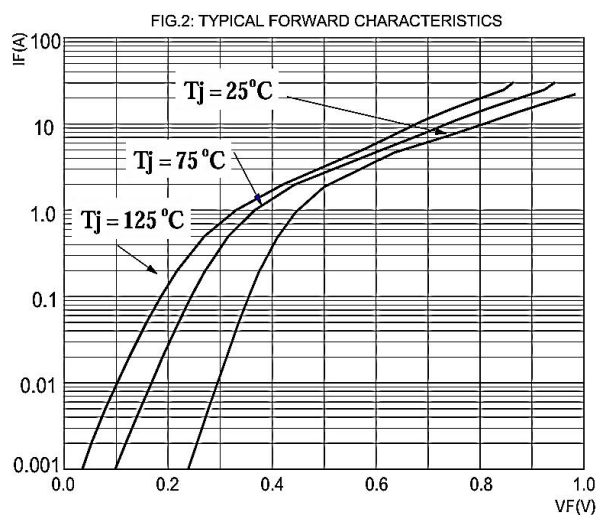
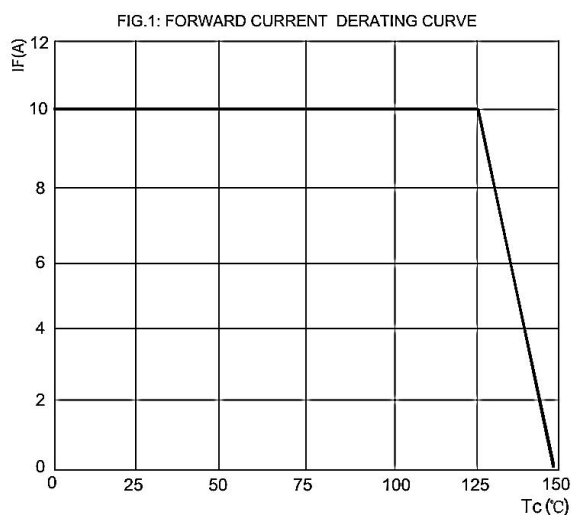
SCHOTTKY BARRIER RECTIFIER

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	$V_{(BR)}$	$I_R=0.1mA$	65			V
Reverse current	I_R	$V_R=65V$		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	0.74	V
	V_{F3}	$I_F=10A$			0.95	V

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

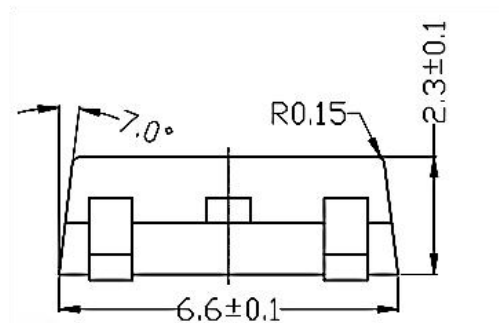
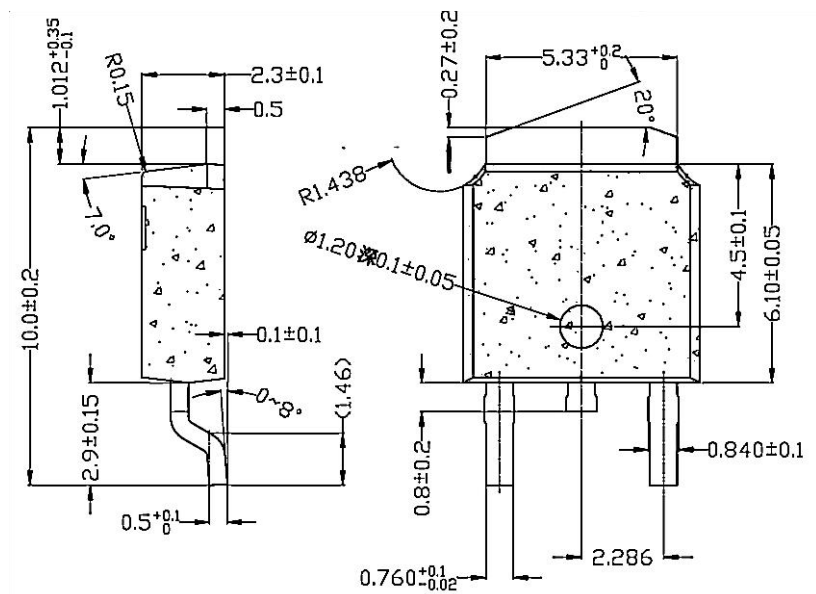
■ TYPICAL CHARACTERISTICS



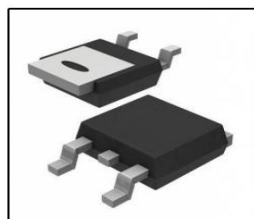
MBR1065CT

SCHOTTKY BARRIER RECTIFIER

■ TO - 252 Package Outline Dimensions



■ TO - 252 Packing Information



2500PC
S/reel



2 Reel/BOX



5 Inner
Box



Inner box

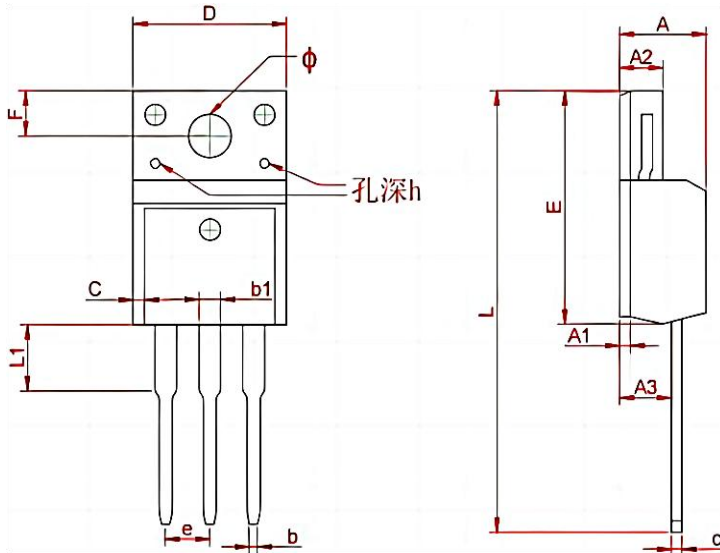
Outer box

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

MBR1065CT

SCHOTTKY BARRIER RECTIFIER

■ 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



5 Inner
Box



Outer Box

Inner Box

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