



DESCRIPTION

The MBR2065CS/CT meet the ROHS and Green Product requirement with full function reliability approved.

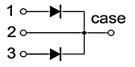
FEATURE

- *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



WPM: LOGO

MBR2065CT=Device Code (TO-220F)

MBR2065CS=Device Code (TO-252)

ABSOLUTE MAXIMUM RATINGS(T_A=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	
lo	Average rectified output current	20 (10*2)	Α	
IFSM	Non-Repetitive peak forward surge current (8.3ms half sine wave)	150*2	А	
Tj	Junction temperature	150	°C	
Tstg	Storage temperature	-55 ~ +150	°C	
Davi	Thermal Resistance fromJunction to Ambient	TO-252	100	2C/M
Rөja		TO-220F	58	°C/W
RθJC	The weed Designation of Cons	TO-252	5	°C/M
	Thermal Resistance From Junction To Case	TO-220F	3	°C/W

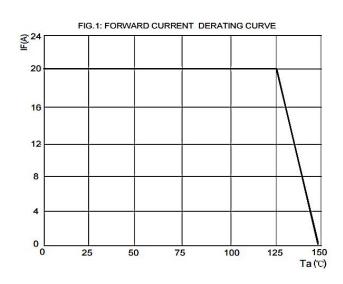
Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

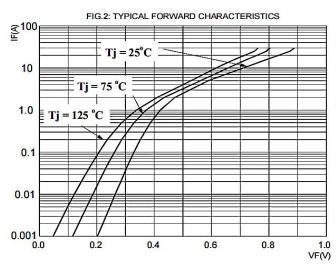


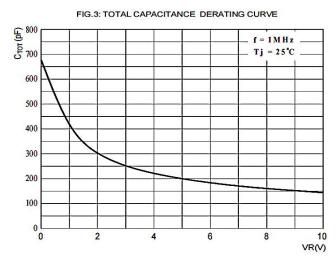
ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

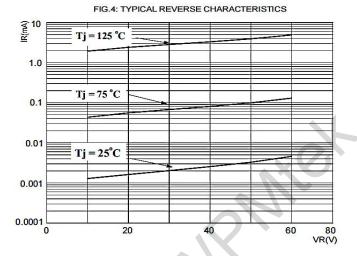
PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Reverse voltage	V(BR)	I R=0.1mA		65			V
Daylawaa alimmant	IR	VR=65V	Tj =25℃			50	uA
Reverse current			Tj =125℃		5.0		mA
		I F=5A	Tj =25℃		0.60		V
			Tj =125℃		0.54		V
Forward voltage	VF	I F=10A	Tj =25℃		0.72	0.75	V
			Tj =125℃		0.62		V
*Pulse test: pulse width ≤300us, duty cycle≤ 2.0%							

TYPICAL CHARACTERISTICS



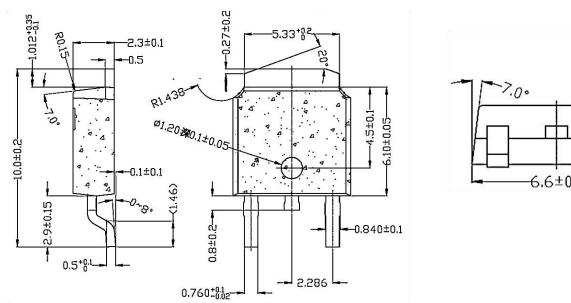


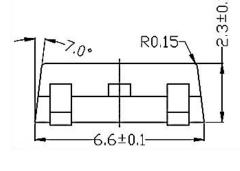




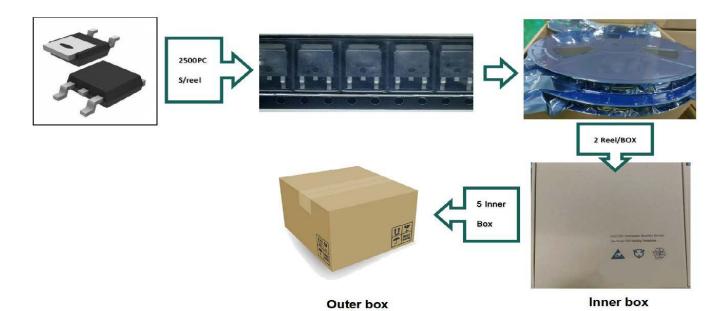


TO - 252 Package Outline Dimensions





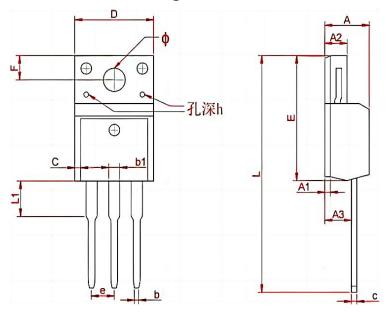
TO - 252 Packing Information



Package version	Reel dimensions φ×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	ф 330*20	2500	2	360*340*50	25000	375*375*280

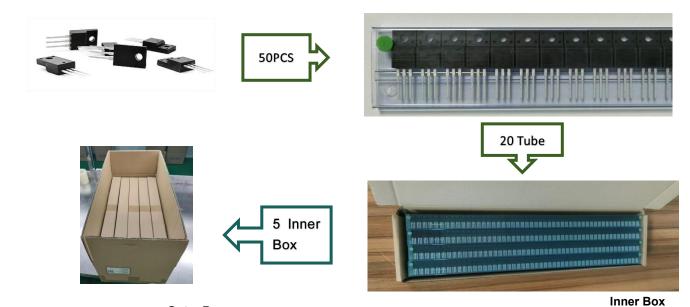


TO - 220F Package Outline Dimensions



Symbol	Dimensions In Millimeters					
Symbol	Min	Max				
A	4. 300	4.750				
A1	0. 7 REF					
A2	2.300	2.850				
A3	2.500	2.900				
b	0.380	0.420				
b1	1. 220	1. 280				
С	1.08	1.200				
С	0.480	0.520				
D	10. 15	10. 450				
Е	15. 700	15. 950				
е	e 2.574 TY					
F	3. 470 REF					
у	3. 200 REF					
h	0.000	0.800				
L	28. 780	28. 900				
L1	2.990	3. 100				

TO - 220F Packing Information



Outer Box

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

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