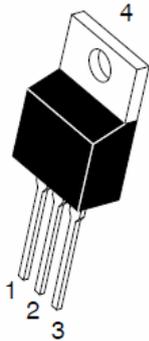
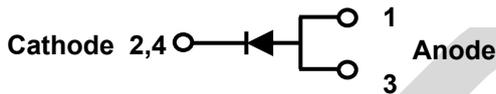
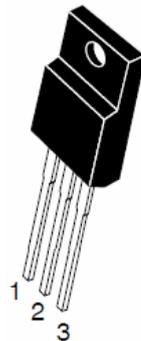


SCHOTTKY BARRIER RECTIFIER

TO-220AB
MBR20100CTL-S



ITO-220AB
MBR20100CTFL-S



Features

- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

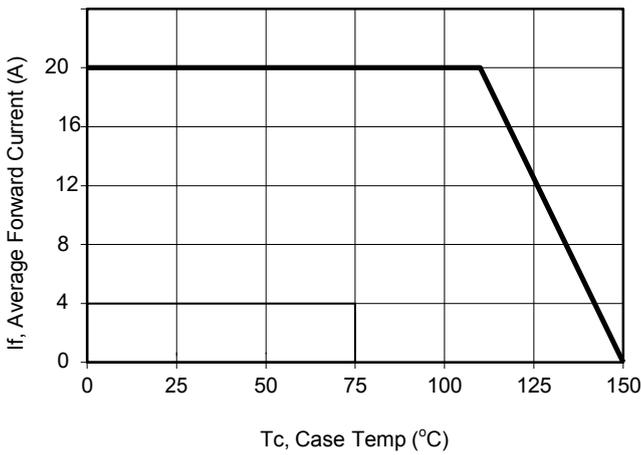
Parameter	Symbol	Limit	Unit		
Maximum repetitive peak reverse voltage	VRRM	100	V		
Maximum average forward rectified current	IF(AV)	20	A		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode	IFSM	150	A		
Operating junction and storage temperature range	T _J , T _{STG}	-50 to +150	°C		
Typical thermal resistance per leg	TO-220AB	2	°C/W		
	ITO-220AB	4	°C/W		
Instantaneous forward voltage per diode	VF(1)	TYP.	MAX.		
		IF=2A TJ=25°C	0.43	0.50	
		IF=2A TJ=125°C	0.39	-	
		IF=10A TJ=25°C	0.71	0.78	
Instantaneous reverse current per diode at rated reverse voltage	IR(2)	TJ=25°C	1	60	µA
		TJ=125°C	1	-	mA

Notes:

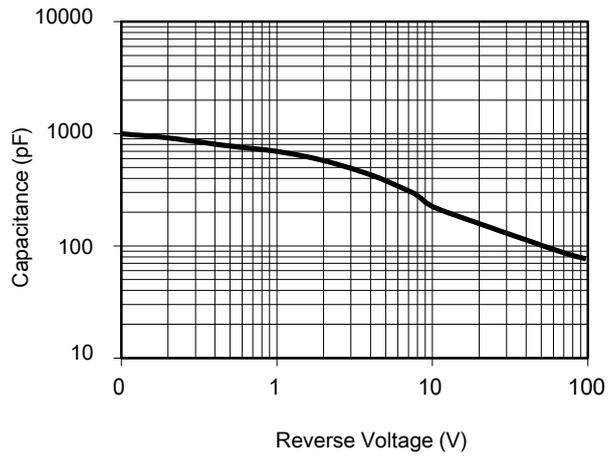
(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

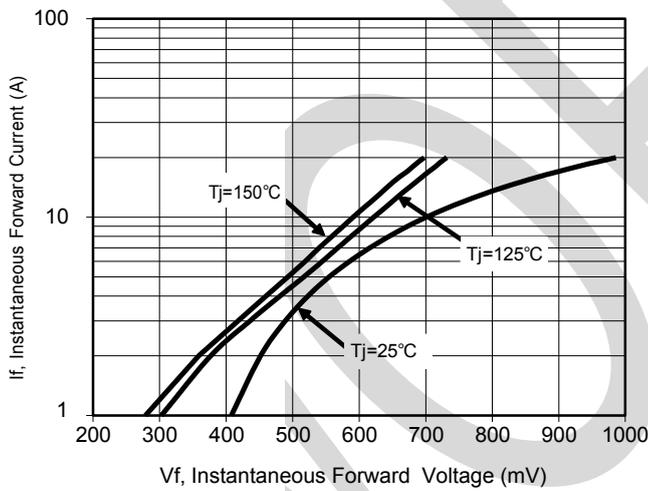
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



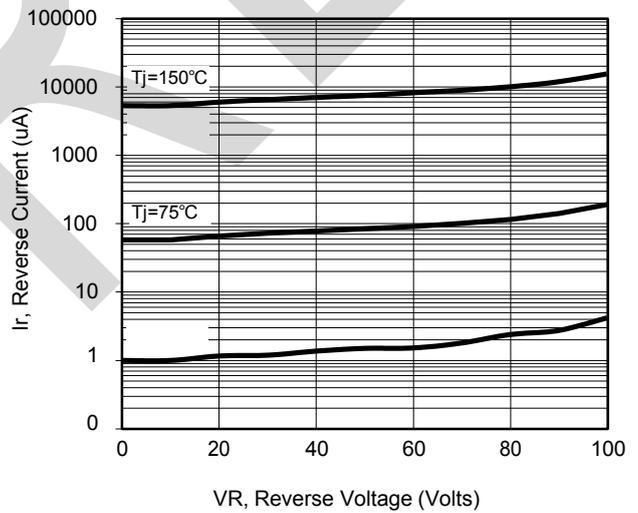
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage

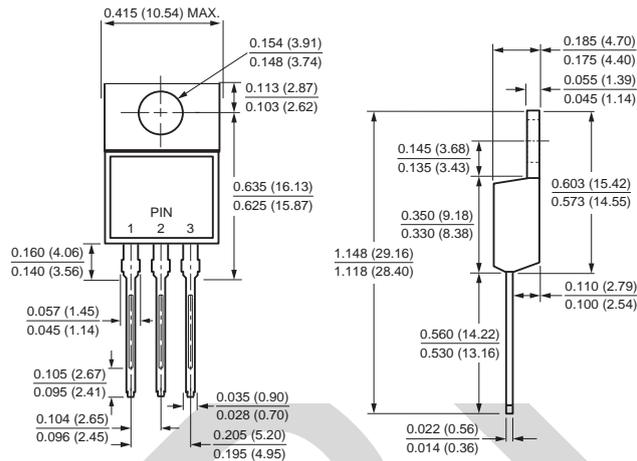


Typical Reverse Current

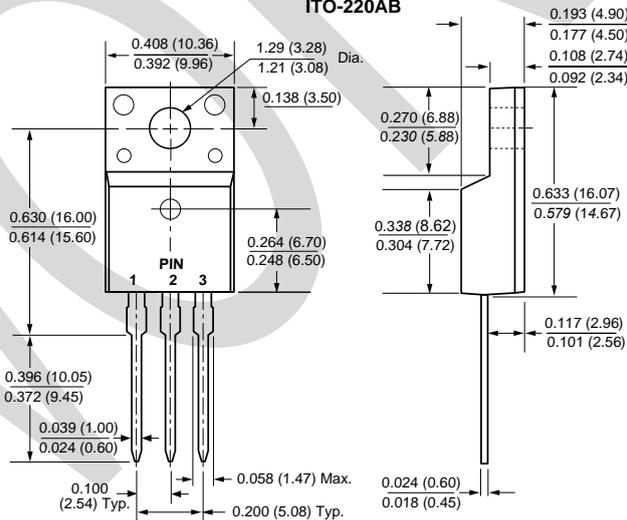
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



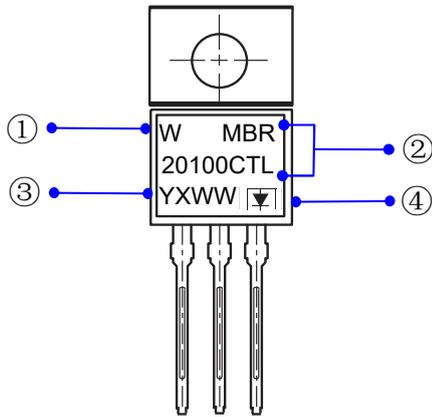
ITO-220AB



MBR20100CTL-S

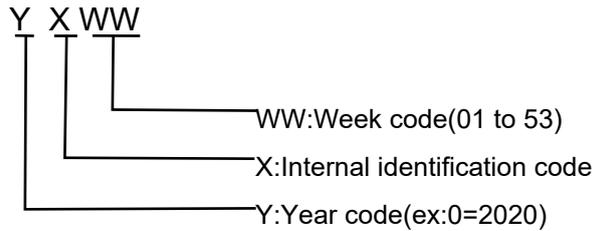
MBR20100CTFL-S

Marking Information



① W : Company's trademark
② Product model : MBR20100CTL or MBR20100CTFL

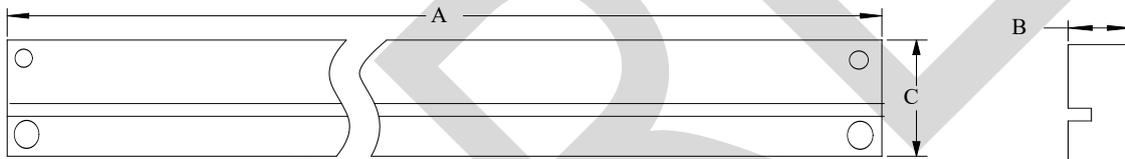
③ PDC information:



④  Single wafer

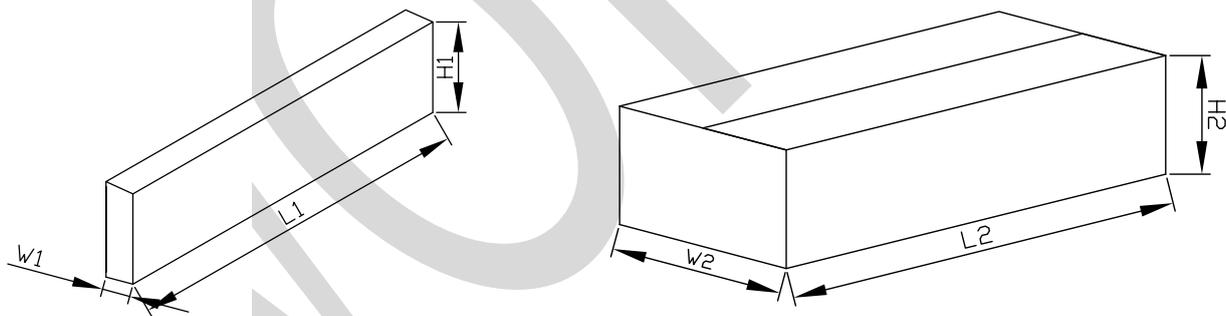
Packaging Information

1. Tube Dimensions



2. Inside Box

3. Outside Box



Packaging Information

NO	UNIT	Tube Dimensions			Inside Box			Outside Box		
		A	B	C	L1	W1	H1	L2	W2	H2
Size	mm	530	7	33	570	46	150	590	260	180
QTY	PCS	50PCS/Tube			Smallest package,1000PCS, 20 tube in total			5,000PCS/carton,5 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									