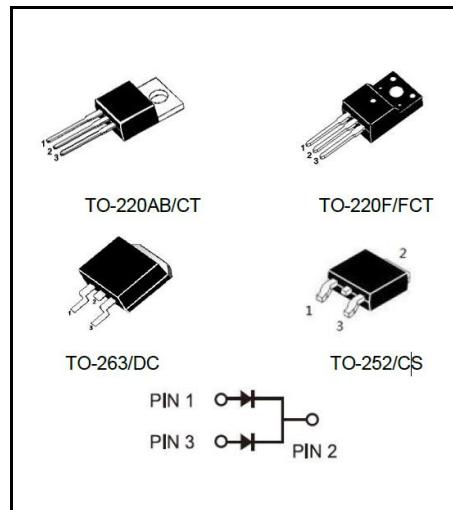


SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 200 V
Forward Current - 20 A
FEATURES

- ◆ Very low forward voltage
- ◆ High current capability
- ◆ High forward surge capability
- ◆ Low power losses, High efficiency
- ◆ Guarding for over voltage protection
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives


MECHANICAL DATA

- ◆ Case: TO-220AB/CT TO-220F/FCT TO-263/DC TO-252/CS
- ◆ Solder bath temperature 275°C maximum, 10s per JESD22-106

Primary Characteristic

I_o	2*10A
V_{RRM}	200V
I_{FSM}	250A
V_F	0.76V
T_j Max	150°C

Maximum Ratings (Per Leg) at $T_a=25^\circ C$ unless otherwise specified

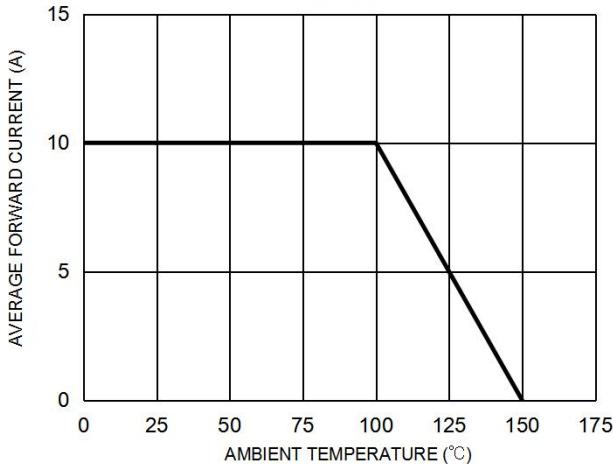
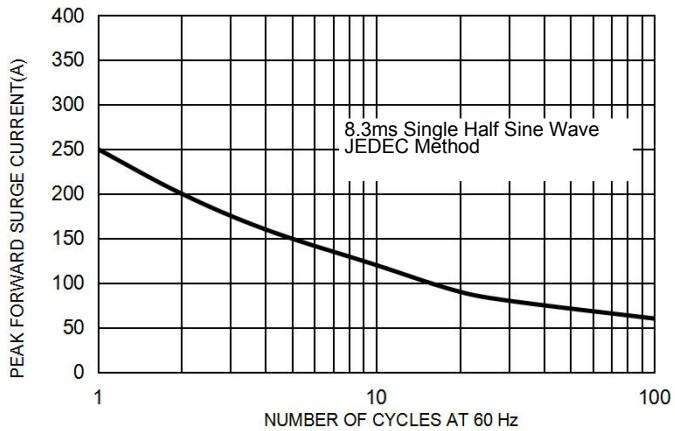
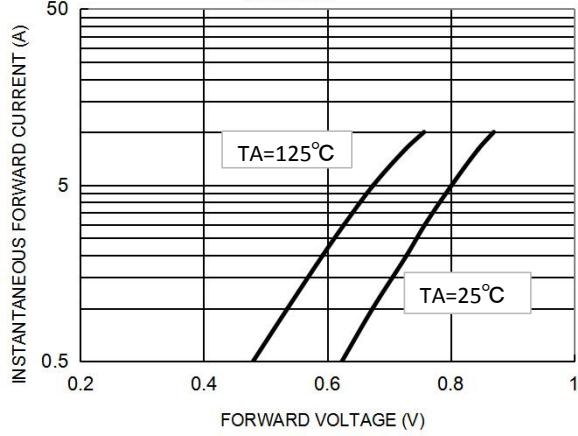
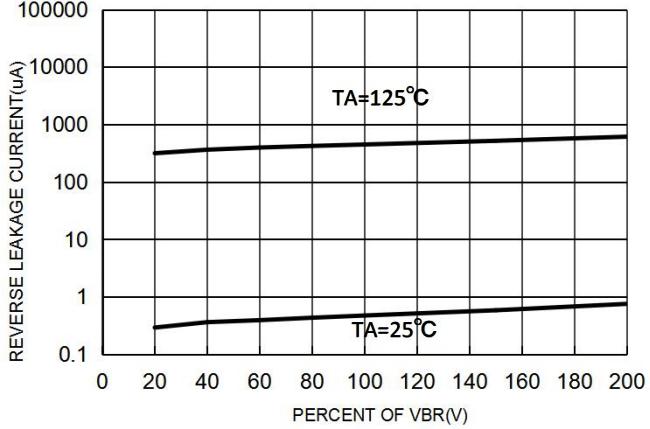
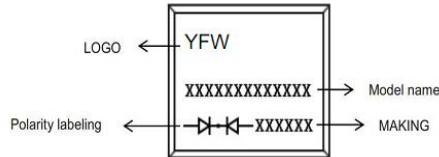
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	I_o	10	A
		20	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	250	A
Operating Temperature Range	T_j	150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C
Typical Thermal Resistance (Note1) TO-220AB,TO-263,TO-252/TO-220F	$R_{\theta JA}/ R_{\theta JC}$	2/4	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbols	Value		Units
		Typ	Max	
Forward Voltage Drop (Note2)	V_F	0.76	-	V
		0.63	-	
		0.80	-	
		0.68	-	
		0.87	0.95	
		0.76	-	
Maximum Reverse Current at $V_R=200V$	I_R	1	10	uA
		1	-	mA

Note2: Pulse test: 300 μs pulse width, 1 % duty cycle

RATINGS AND CHARACTERISTIC CURVES
FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

Marking on the body


MAKING:
 X XXX X XX
 ↓ ↓
 Assembly code (e.g : AB,CD,...)
 Material -Code
 (H:No halogen A:ordinary)
 Week - code (WW:01~52)
 Year - code
 (Y: Last digit of year & A:2012,B:2013...)

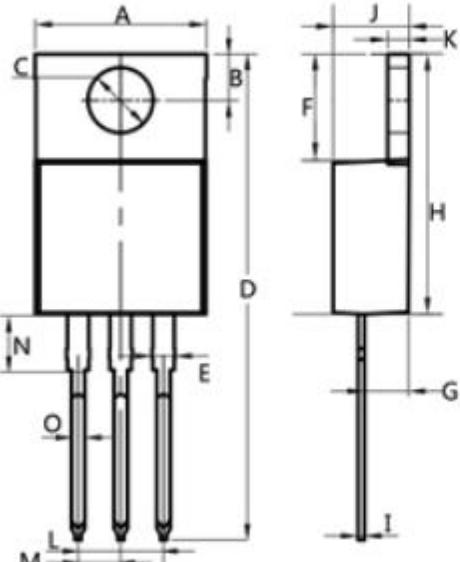
Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR20200CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR20200FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR20200DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR20200DC-R	O-263	0.04oz(1.16g)	800 pcs / reel	800pcs/box 4000pcs/carton
MBR20200CS	TO-252	0.011oz(0.32g)	2500 pcs / reel	2500pcs/box 12500pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

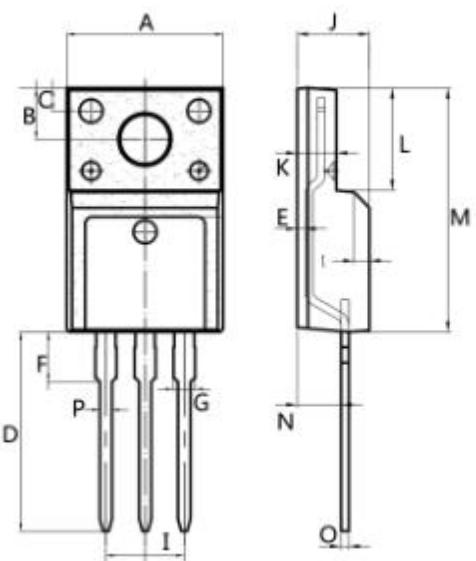
Package Outline Dimensions millimeters

TO-220AB



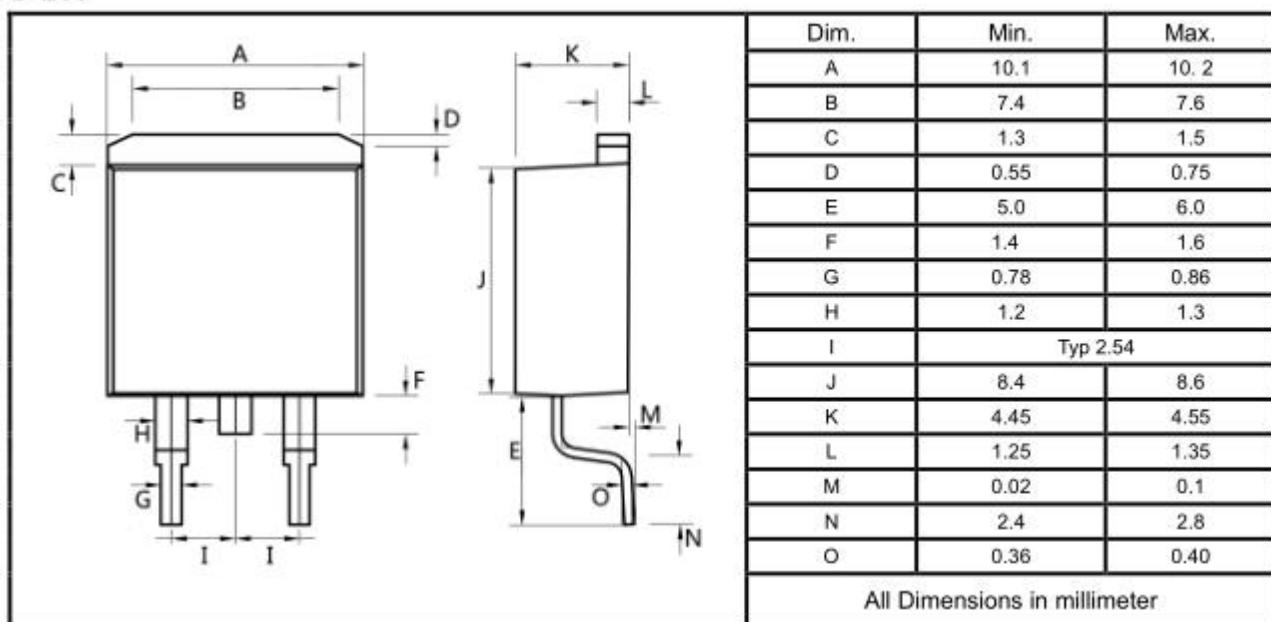
Dim.	Min.	Max.
A	10.15	10.35
B	2.65	2.95
C	3.70	3.90
D	28.5	29.5
E	1.30	1.45
F	6.35	6.55
G	2.9	3.3
H	15.0	16.0
I	0.38	0.42
J	4.45	4.55
K	1.25	1.35
L	Typ 5.08	
M	Typ 2.54	
N	3.1	3.3
O	0.76	0.84
All Dimensions in millimeter		

TO-220F



Dim.	Min.	Max.
A	9.95	10.25
B	2.95	3.25
C	1.25	1.45
D	12.95	13.25
E	0.50	0.65
F	3.1	3.3
G	1.30	1.45
H	Typ 2.54	
I	Typ 5.08	
J	4.60	4.75
K	2.50	2.65
L	6.35	6.55
M	15.4	16.0
N	2.75	3.05
O	0.48	0.52
P	0.76	0.84
All Dimensions in millimeter		

TO-263



TO-252

