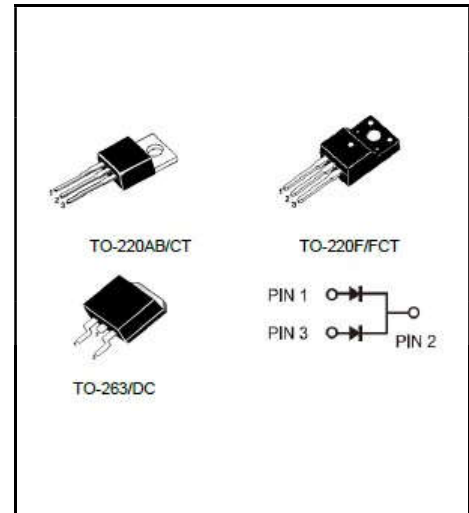


**SCHOTTKY BARRIER RECTIFIER**
**Reverse Voltage - 100 V**
**Forward Current - 60 A**
**Features**

- ◆ 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
- ◆ Solder bath temperature 275°C maximum, 10s per JESD22-106


**Primary Characteristic**

<b>I<sub>o</sub></b>	<b>2*30A</b>
<b>V<sub>RRM</sub></b>	<b>100V</b>
<b>I<sub>FSM</sub></b>	<b>450A</b>
<b>V<sub>F</sub></b>	<b>0.84V</b>
<b>T<sub>J</sub> Max</b>	<b>150°C</b>

**Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified**

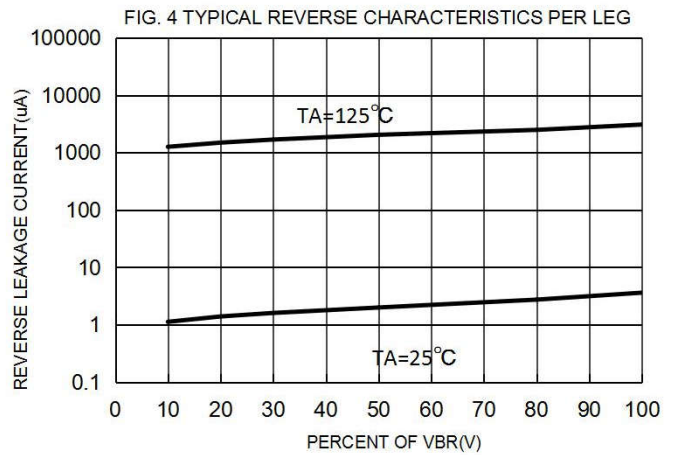
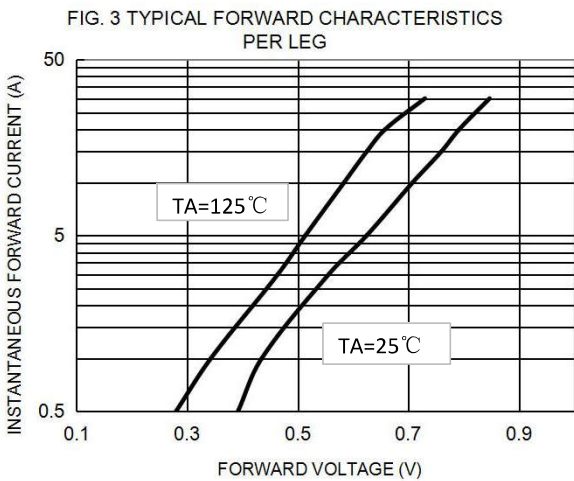
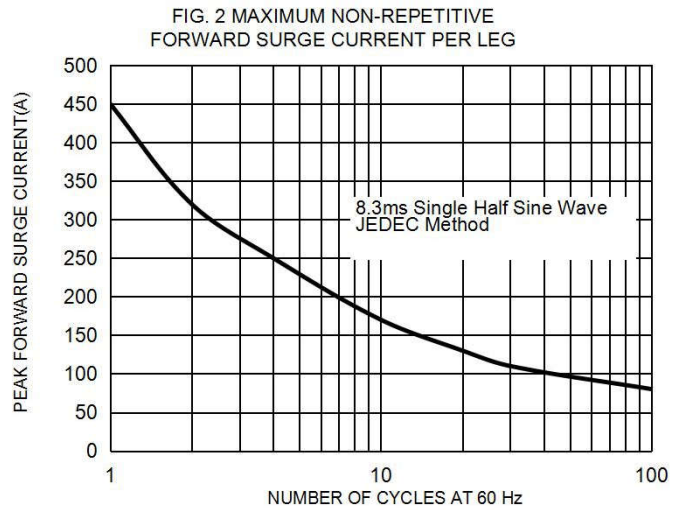
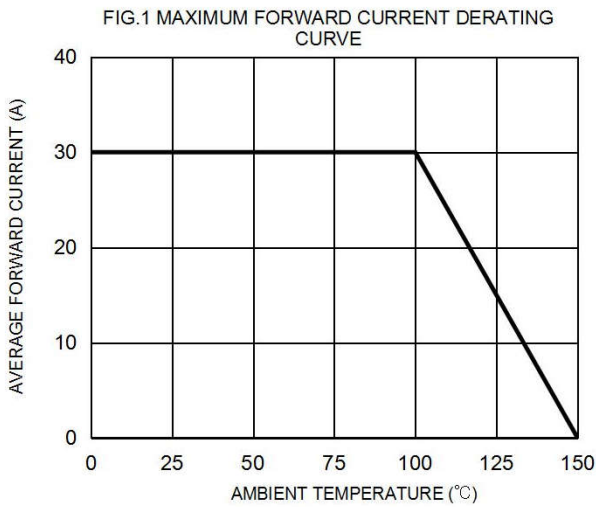
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	<b>V<sub>RRM</sub></b>	100	<b>V</b>
Working Peak Reverse Voltage	<b>V<sub>RW</sub></b>	70	<b>V</b>
Maximum DC Blocking Voltage	<b>V<sub>Dc</sub></b>	100	<b>V</b>
Maximum Average Forward Rectified Current	Per Leg	30	<b>A</b>
	Total	60	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	<b>I<sub>FSM</sub></b>	450	<b>A</b>
Operating Temperature Range	<b>T<sub>J</sub></b>	150	<b>°C</b>
Storage Temperature Range	<b>T<sub>STG</sub></b>	-40 ~ +150	<b>°C</b>
Typical Thermal Resistance <sup>(Note1)</sup> TO-220AB, TO-263 TO-220F	<b>R<sub>θJA</sub> R<sub>θJC</sub></b>	2/4	<b>°C/W</b>

**Note1: Thermal resistance from Junction to case per leg mounted on heatsink.**
**Electrical Characteristics (Per Leg) unless otherwise specified**

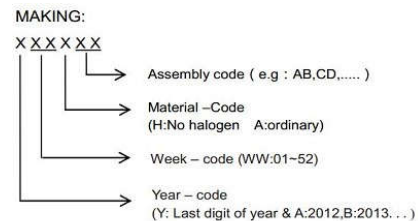
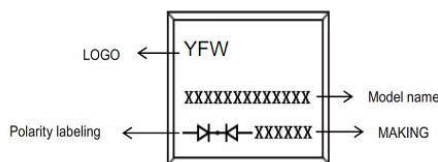
Characteristics	Symbols	Value		Units	
		Typ	Max		
Forward Voltage Drop(Note2)	<b>V<sub>F</sub></b>	0.76	-	<b>V</b>	
at I <sub>F</sub> =15A					TA=25°C
		TA=125°C			
at I <sub>F</sub> =20A		TA=25°C	0.79		-
		TA=125°C	0.66		-
at I <sub>F</sub> =30A		TA=25°C	0.84		0.95
	TA=125°C	0.73	-		
Maximum Reverse Current at V <sub>R</sub> =100V	<b>I<sub>R</sub></b>	4	10	<b>uA</b>	
		3	-	<b>mA</b>	

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

**Ratings and Characteristic Curves**



**Marking On The Body**



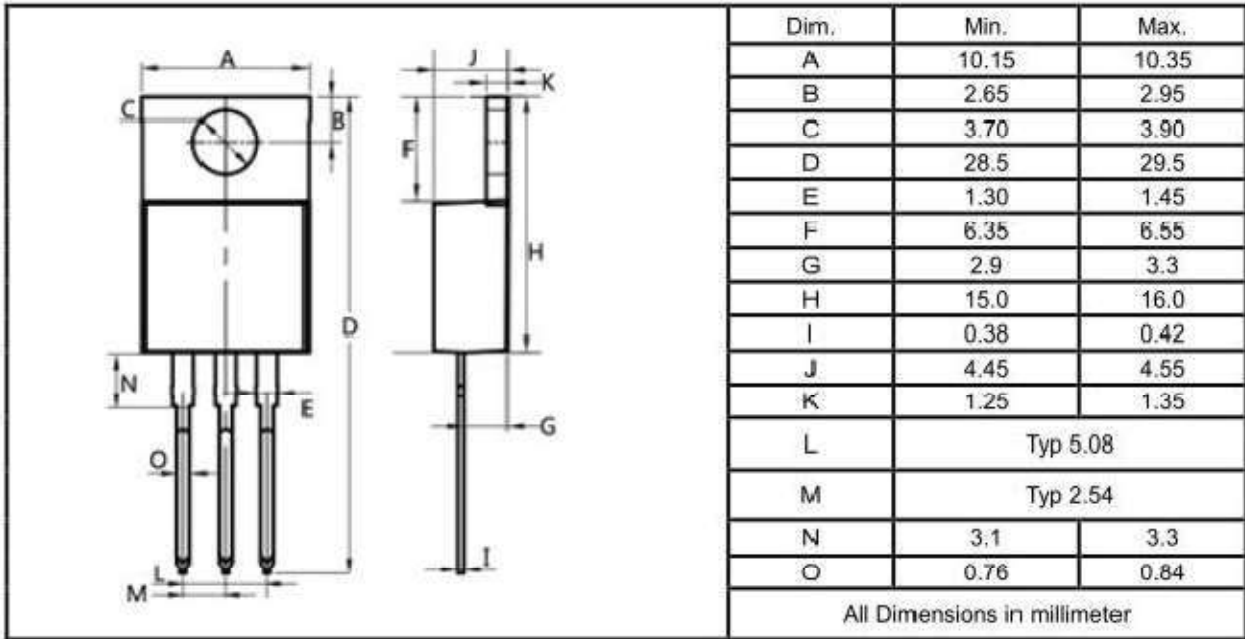
**Ordering Information**

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR60100CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR60100FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR60100DC-G	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR60100DC	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box4000pcs/carton

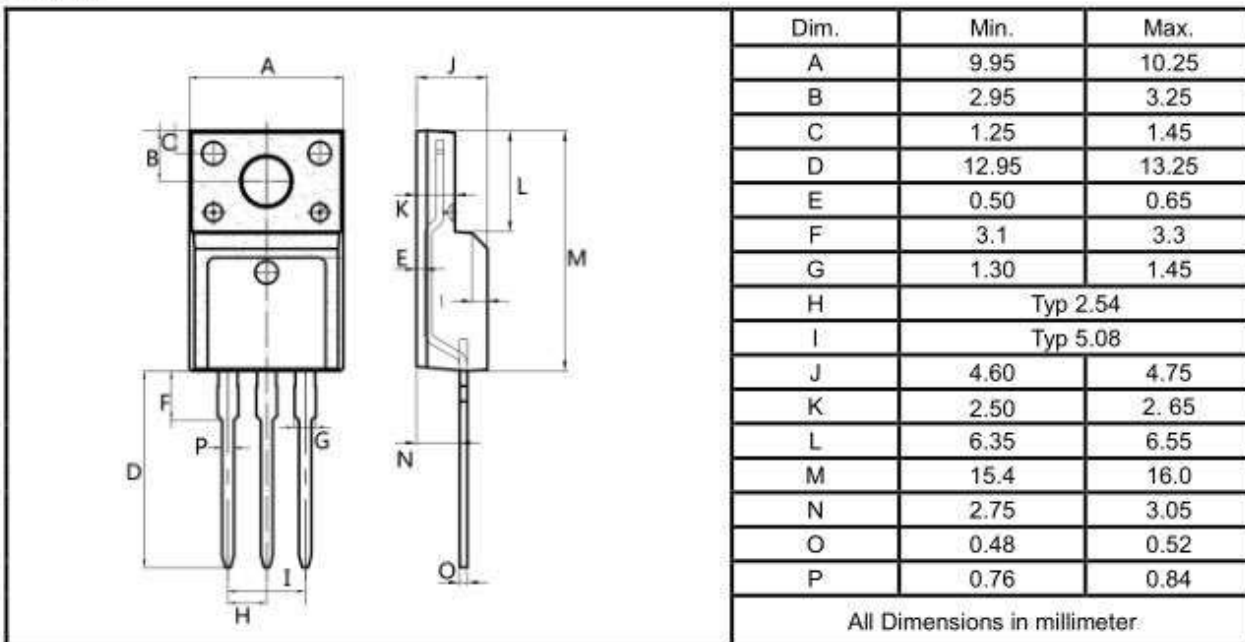
**Note: For Halogen Free molding compound, add "H" suffix to part number above.**

Package Outline Dimensions Millimeters

**TO-220AB**



**TO-220F**



Package Outline Dimensions Millimeters

TO-263

