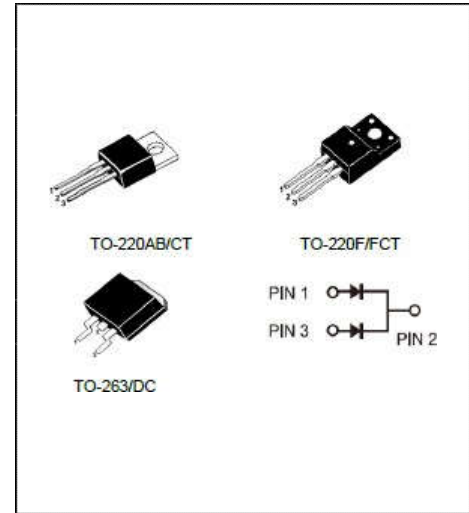


SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 150 V
Forward Current - 60 A
FEATURES

- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection

MECHANICAL DATA

- Case: Molded plastic
- Polarity: As marked
- Mounting Position: Any
- Molded Plastic: UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275°C maximum, 10s per JESD 22-B106


Primary Characteristic

I_o	2*30A
V_{RRM}	150V
I_{FSM}	450A
V_F	0.76V
T_J Max	150°C

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

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	150	V
Working Peak Reverse Voltage		V _{RWM}	105	V
Maximum DC Blocking Voltage		V _{DC}	150	V
Maximum Average Forward Rectified Current	Per Leg	I _o	30	A
	Total		60	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	450	A
Operating Temperature Range		T _J	150	°C
Storage Temperature Range		T _{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)		R _{θJC}	2	°C/W
TO-220AB, TO-263				
TO-220F				

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

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbol	Value		Unit
Forward Voltage Drop (Note2)		V _F	Typ.	Max.	V
at I _F =10A	TA=25°C		0.76	-	
	TA=125°C		0.63	-	
at I _F =20A	TA=25°C		0.83	0.88	
	TA=125°C		0.71	-	
at I _F =30A	TA=25°C		0.87	0.93	
	TA=125°C		0.76	-	
Maximum Reverse Current at V _R =150V	TA=25°C		I _R	5	
	TA=125°C		3	-	mA

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

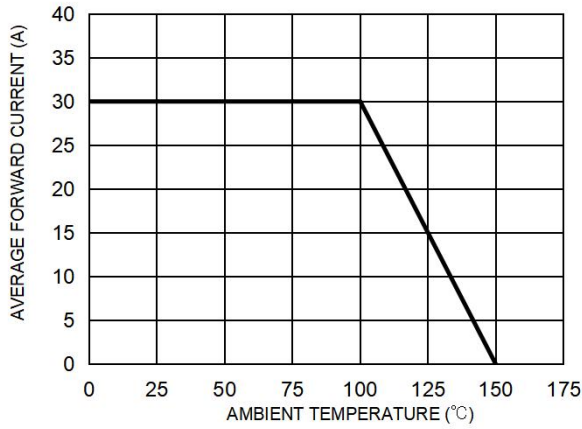


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

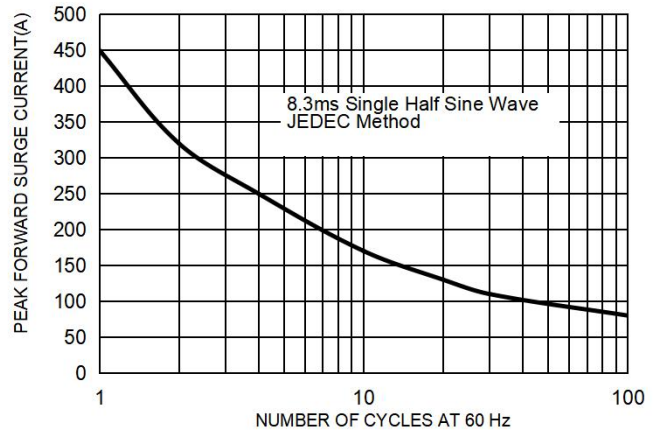


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

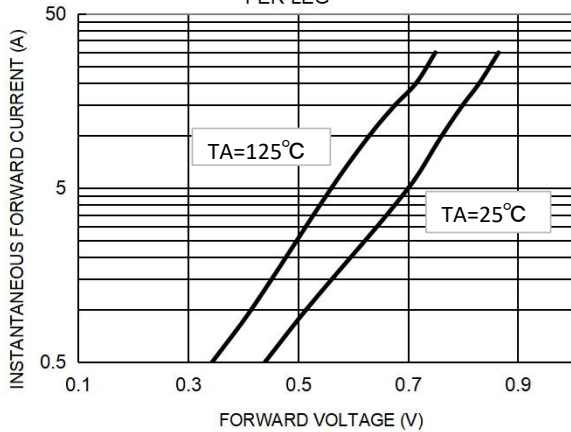
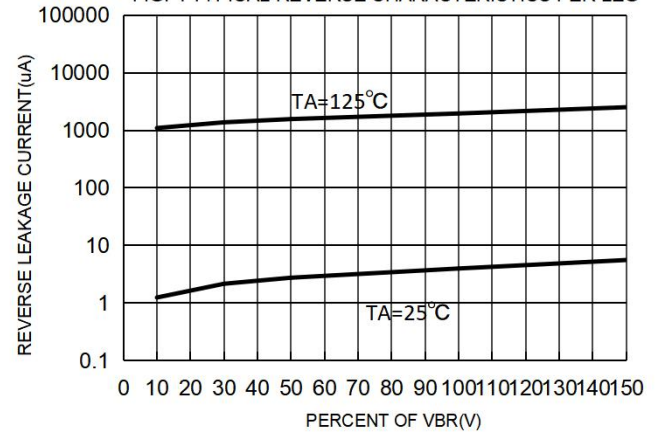
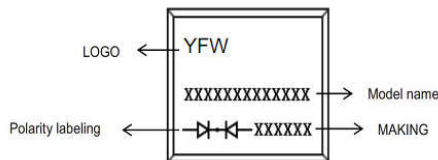


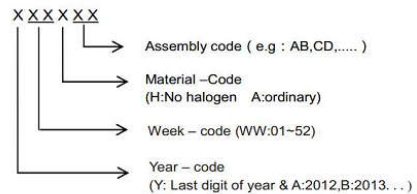
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking on the body



MAKING:



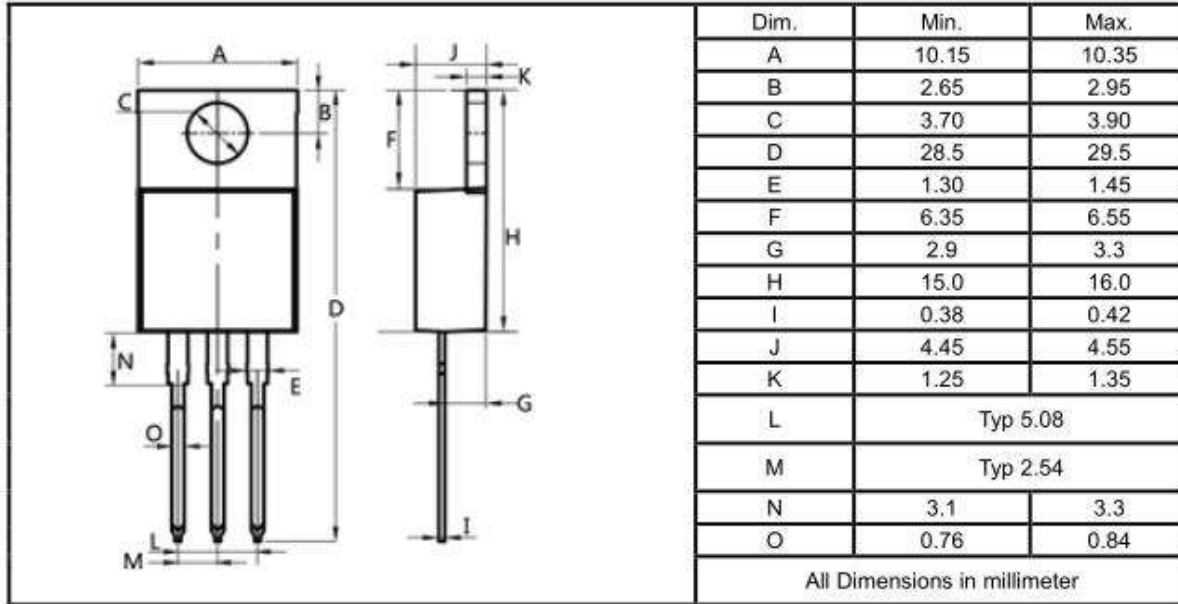
Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR60150CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR60150FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR60150DC	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 4000pcs/carton

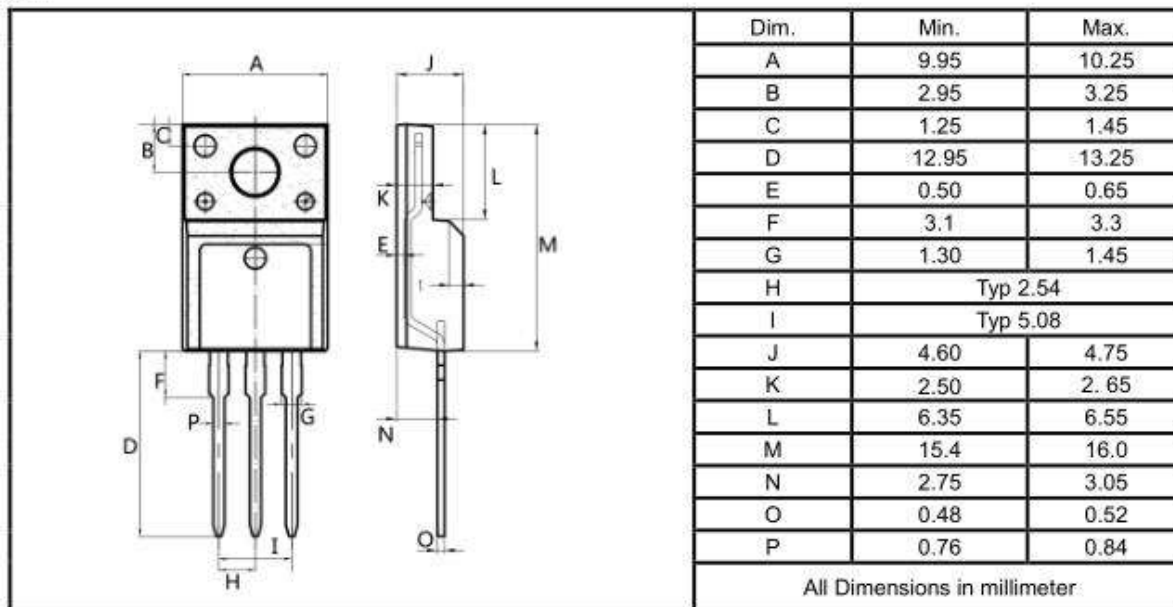
Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-220AB



TO-220F



Package Outline Dimensions millimeters

TO-263

