

LOW VF SCHOTTKY RECTIFIER

Reverse Voltage - 60 V

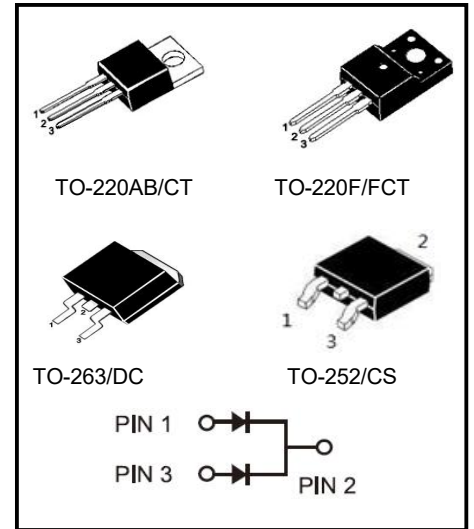
Forward Current - 20 A

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	10A
V_{RRM}	60V
I_{FSM}	200A
V_F	0.46V
T_J Max	150°C

Maximum Ratings at Ta=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	V
Working Peak Reverse Voltage	V _{RWM}	60	V
Maximum DC Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Rectified Current	Per Leg	10	A
	Total	20	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200	A
Operating Temperature Range	T _J	-50 to +150	°C
Storage Temperature Range	T _{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1) TO-220AB, TO-263/TO-220F	R _{θJC}	2/4	°C/W

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

Electrical Characteristics unless otherwise specified

Characteristics	Symbol	Value		Unit
Forward Voltage Drop(Note2)		Typ.	Max.	V
at I _F =3A	TA=25°C	0.39	-	V
	TA=125°C	0.29	-	
at I _F =5A	TA=25°C	0.43	0.53	
	TA=125°C	0.35	-	
at I _F =10A	TA=25°C	0.50	0.60	V
	TA=125°C	0.46	-	
Maximum Reverse Current at V _R =60V	TA=25°C	30	50	μA
	TA=125°C	12	-	mA

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

Ratings and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

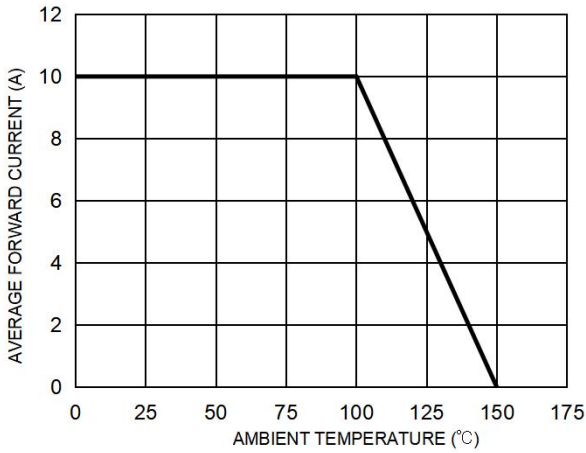


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

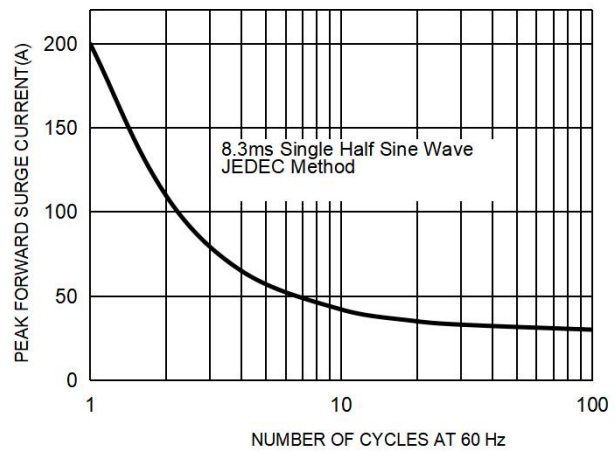


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

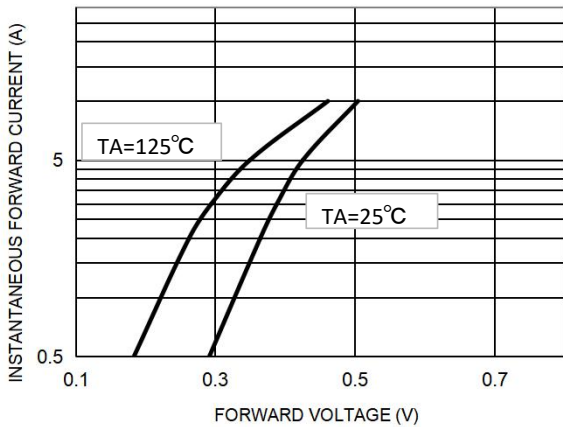
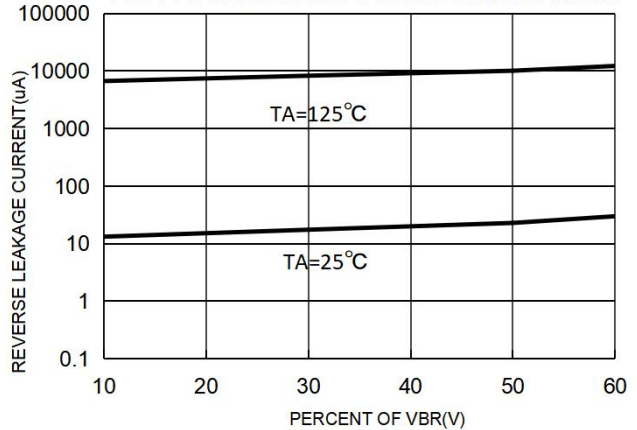
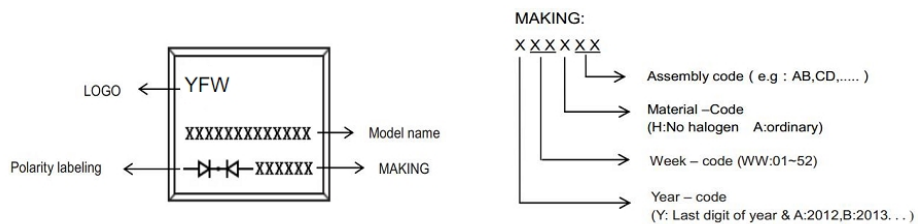


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking on the body



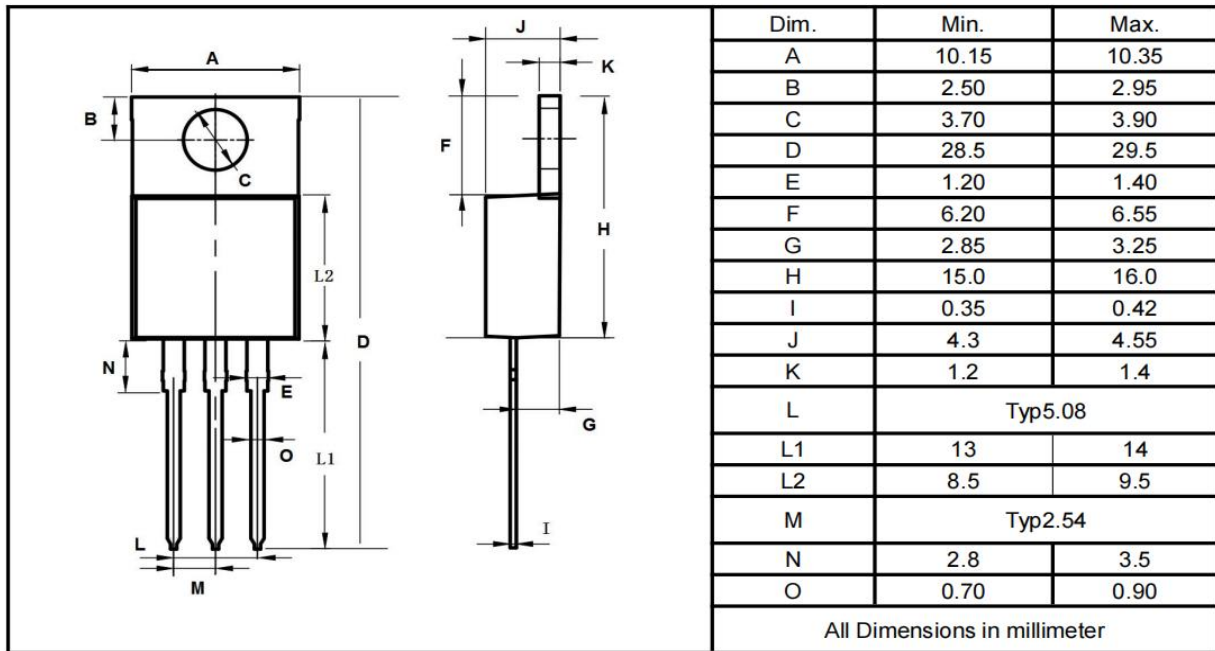
Ordering Information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SRM20V60CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRM20V60FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRM20V60DC	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/carton
SRM20V60CS	TO-252	0.011oz(0.32g)	2500 pcs / reel	5000pcs/box 25000pcs/carton

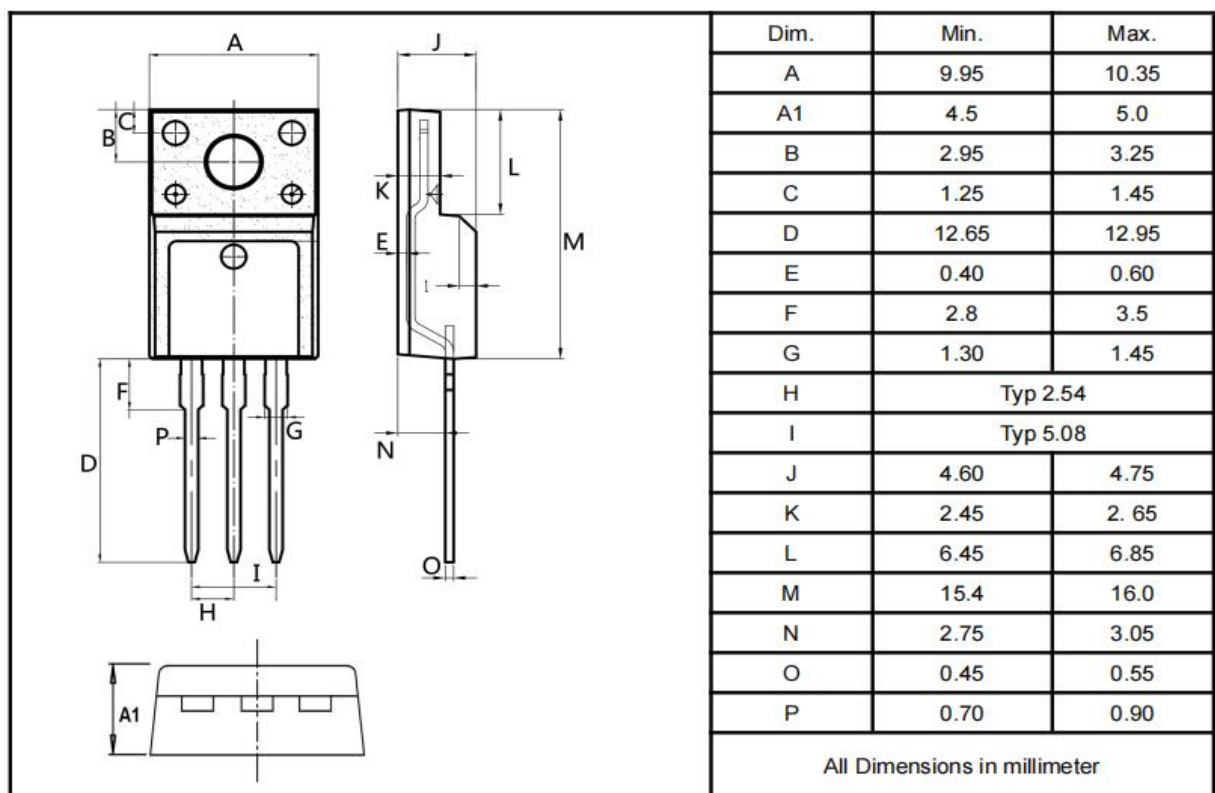
Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

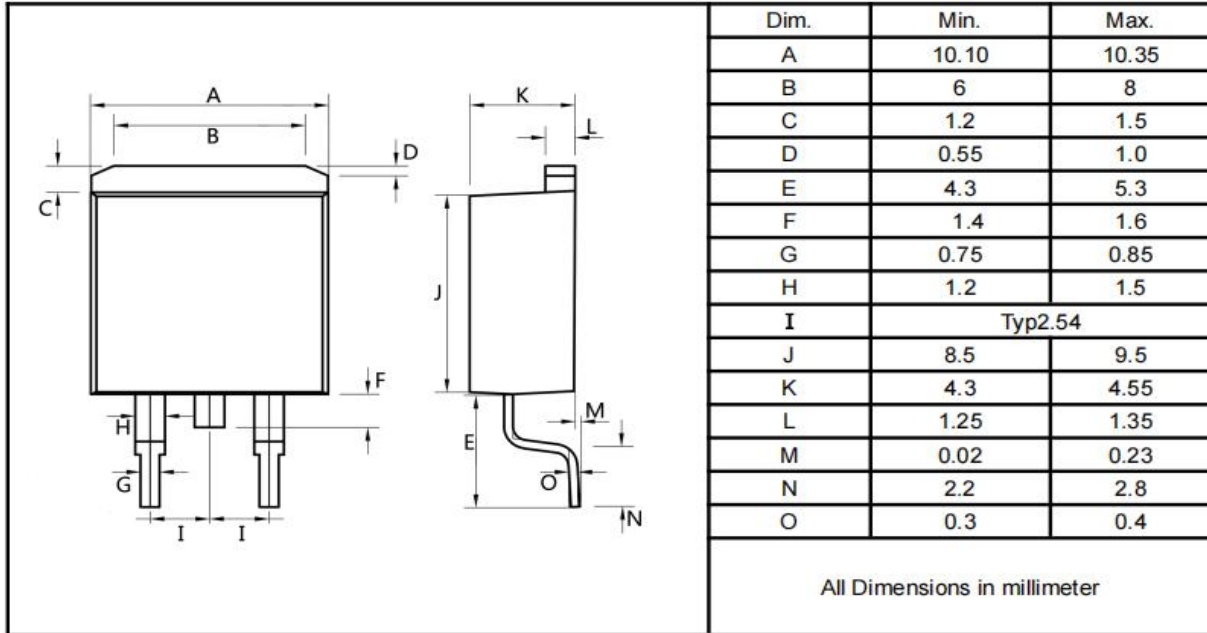
TO-220AB



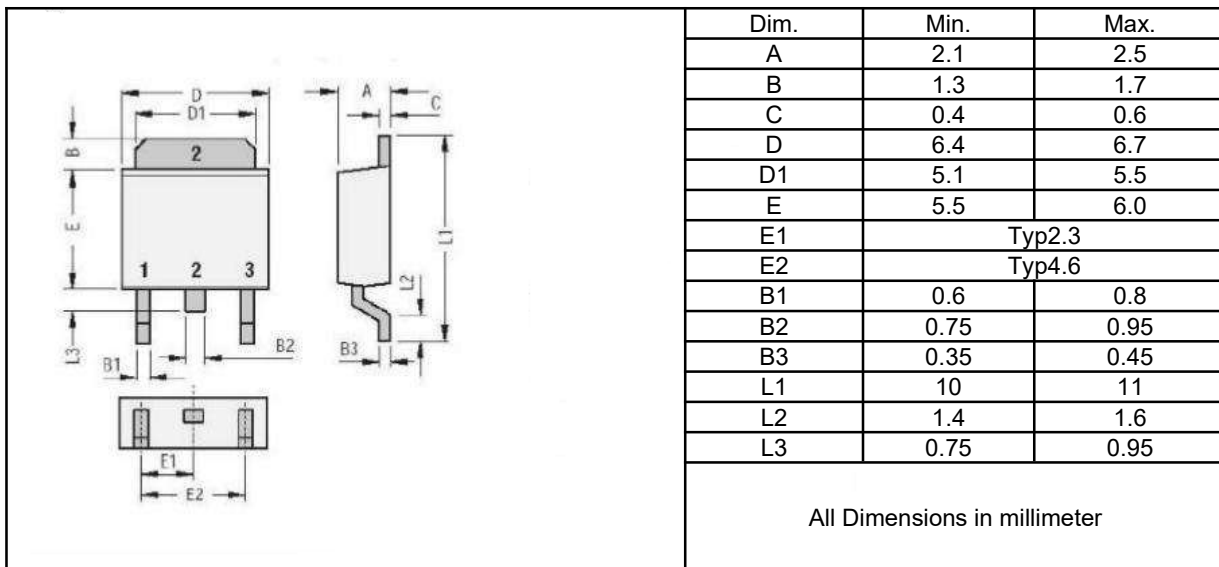
TO-220F



TO-263



TO-252



单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)