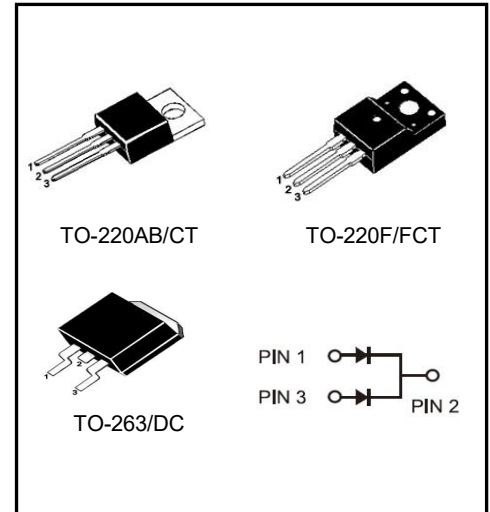


LOW VF SCHOTTKY RECTIFIER
Reverse Voltage - 150 V
Forward Current - 20 A
FEATURES

- ◆ 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	20A
V_{RRM}	150V
I_{FSM}	340A
V_F	0.65V
T_J Max	175°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}	150	V
Maximum DC Blocking Voltage	V _{DC}	150	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}	340	A
Operating Temperature Range	T _J	-40 to +175	°C
Storage Temperature Range	T _{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1) TO-220AB, TO-263 TO-220F	R _{θJC}	2	°C/W
		4	

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 =3A		TA=25°C	0.69		-
		TA=125°C	0.55		-
at I _F =5A		TA=25°C	0.72		-
		TA=125°C	0.59		-
at I _F =10A		TA=25°C	0.78		0.83
		TA=125°C	0.65		-
Maximum Reverse Current at V _R =150V		I _R	TA=25°C		0.14
	TA=125°C		155	-	

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

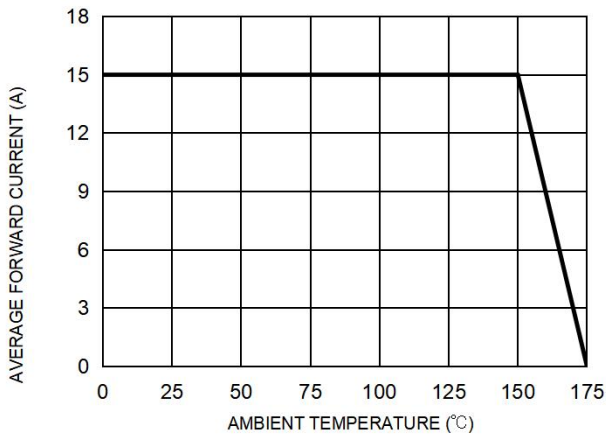


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

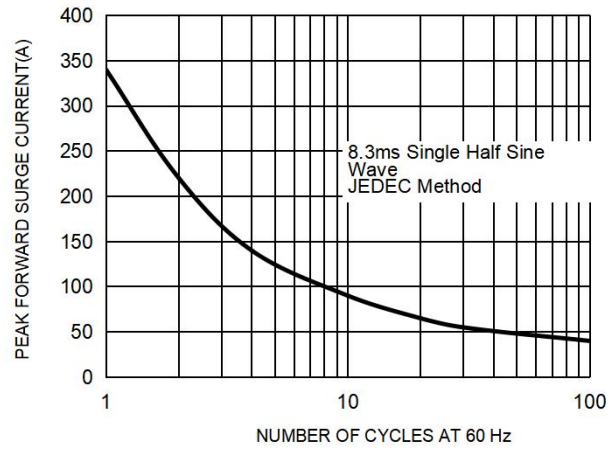


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

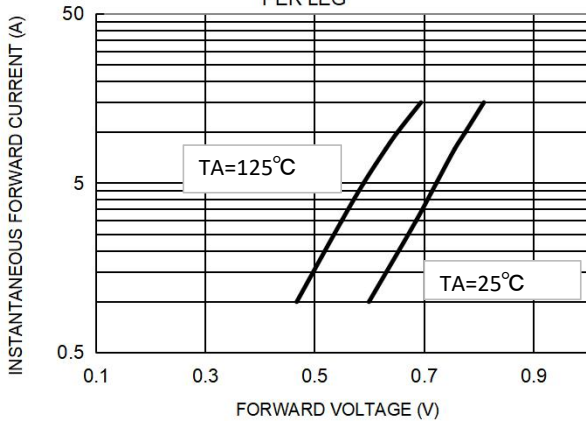
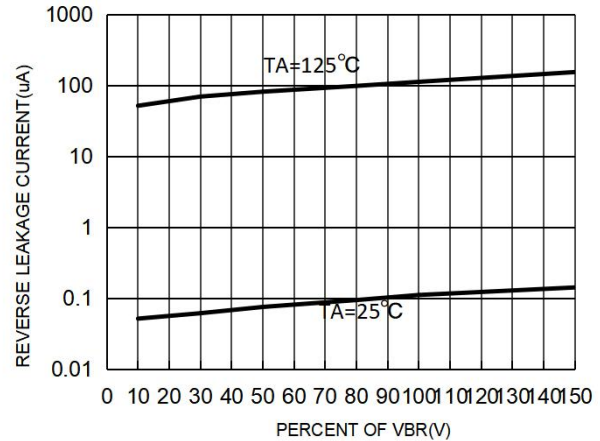
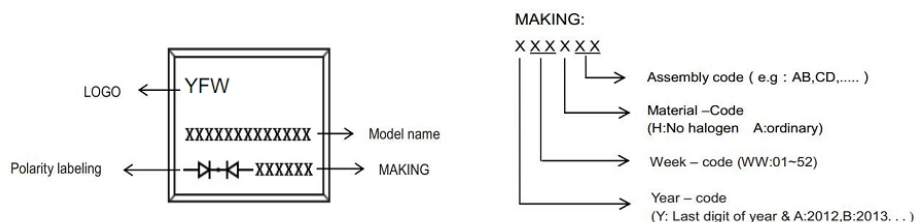


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking on the body



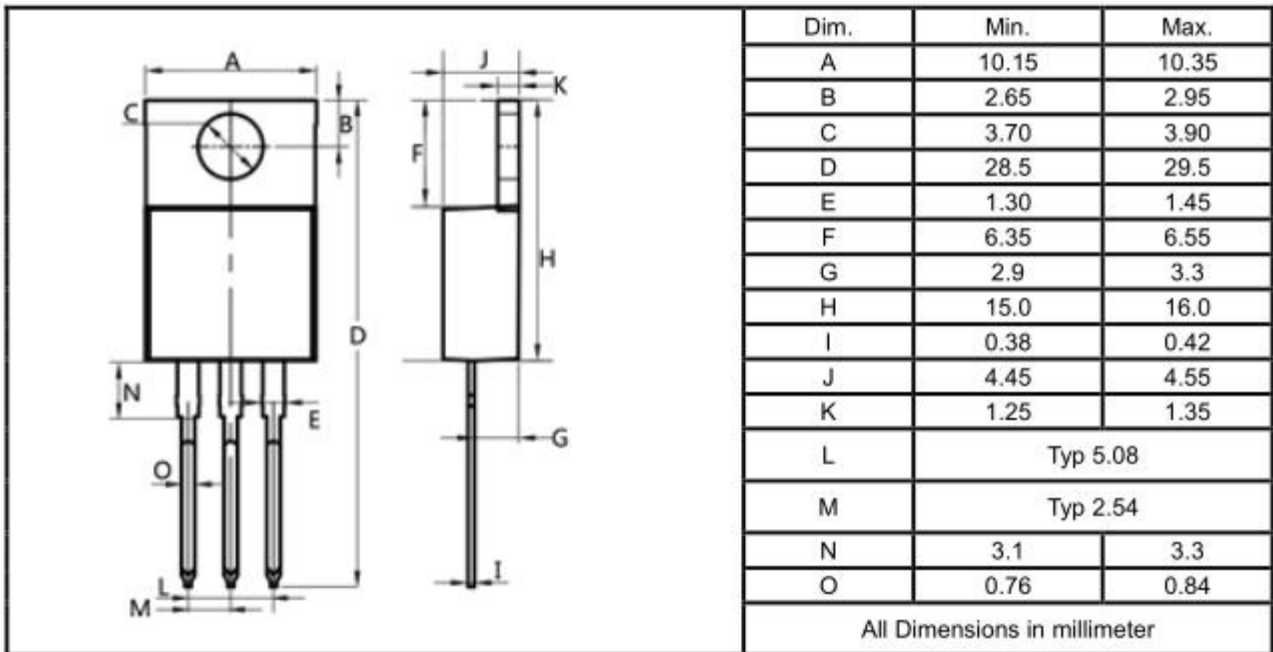
Ordering Information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SRT20V150CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRT20V150FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRT20V150DC	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 4000pcs/carton

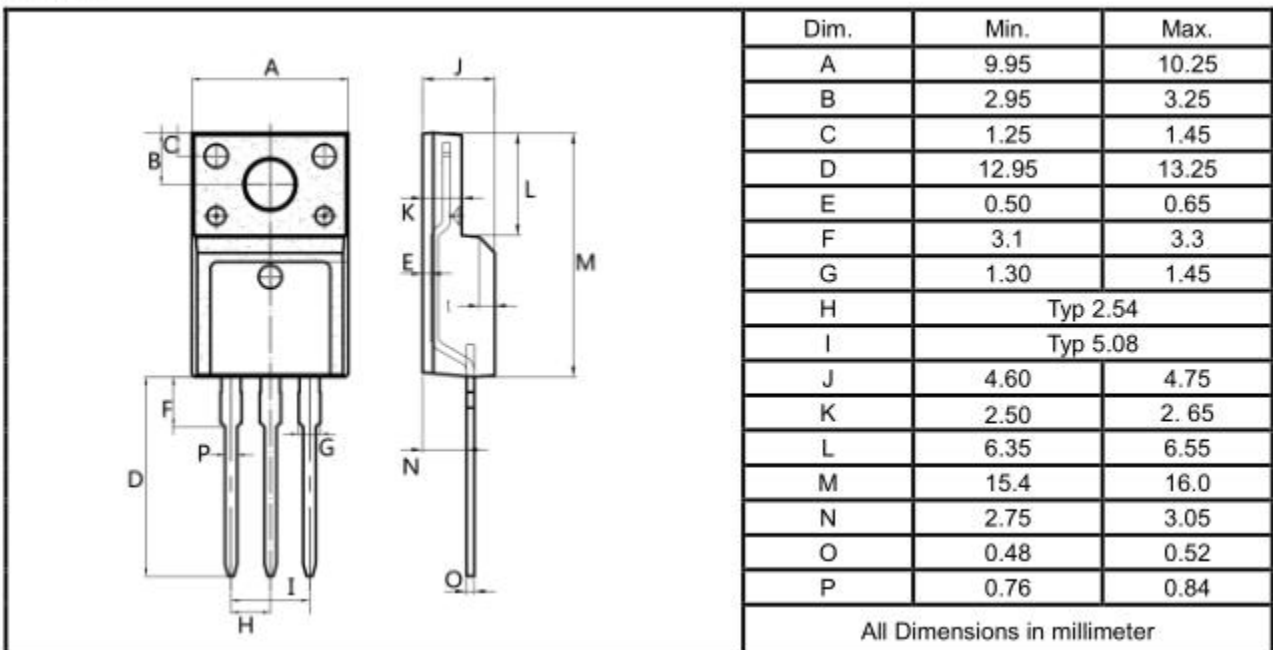
Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-220AB



TO-220F



TO-263

