

**Low VF Schottky Rectifier**

**Reverse Voltage - 60 V**

**Forward Current - 10 A**

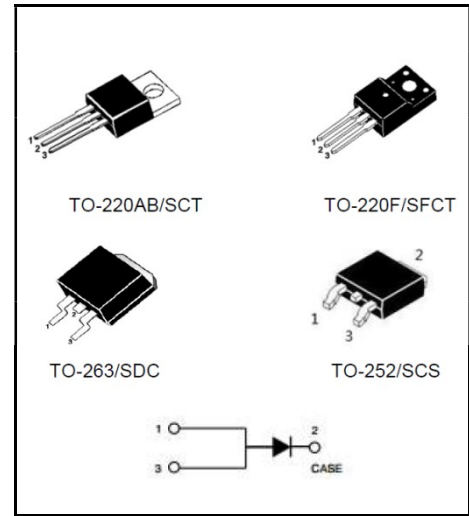


**Features**

- ◆ 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 TO-252/CS
- ◆ Solder bath temperature 275°C maximum, 10s per JESD22-106



**Primary Characteristic**

<b>I<sub>o</sub></b>	<b>10A</b>
<b>V<sub>RRM</sub></b>	<b>60V</b>
<b>I<sub>FSM</sub></b>	<b>150A</b>
<b>V<sub>F</sub></b>	<b>0.48V</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>	60	<b>V</b>
Maximum RMS voltage	<b>V<sub>RMS</sub></b>	60	<b>V</b>
Maximum DC Blocking Voltage	<b>V<sub>DC</sub></b>	60	<b>V</b>
Maximum Average Forward Rectified Current	<b>I<sub>o</sub></b>	10	<b>A</b>
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	<b>I<sub>FSM</sub></b>	150	<b>A</b>
Operating Temperature Range	<b>T<sub>J</sub></b>	-50 ~ +150	<b>°C</b>
Storage Temperature Range	<b>T<sub>STG</sub></b>	-50 ~ +150	<b>°C</b>
Typical Thermal Resistance <sup>(Note1)</sup> TO-220AB TO-263 TO-252 TO-220F	<b>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>	0.37	-	<b>V</b>	
at I <sub>F</sub> =3A					TA=25°C
		TA=125°C			
at I <sub>F</sub> =5A		TA=25°C	0.42		0.46
		TA=125°C	0.38		-
at I <sub>F</sub> =10A		TA=25°C	0.52		0.55
	TA=125°C	0.48	-		
Maximum Reverse Current at V <sub>R</sub> =60 V	<b>I<sub>R</sub></b>	50	100	<b>uA</b>	
		11	-	<b>mA</b>	

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

**Ratings and Characteristic Curves**

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

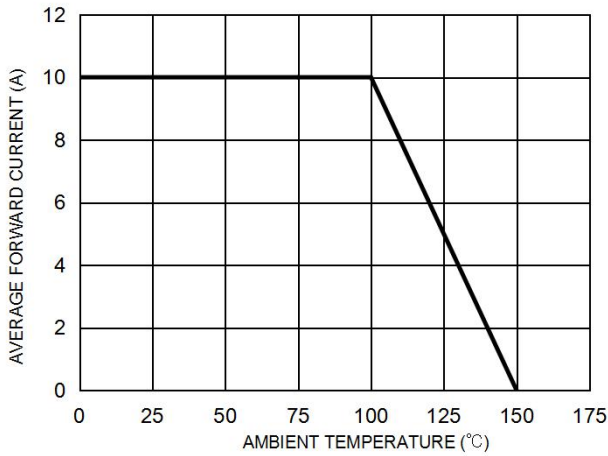


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

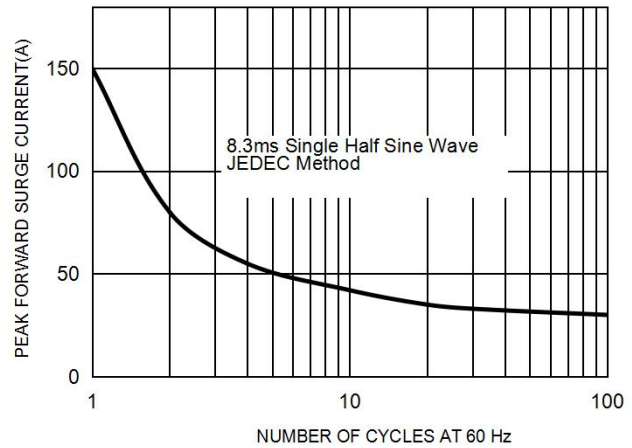


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

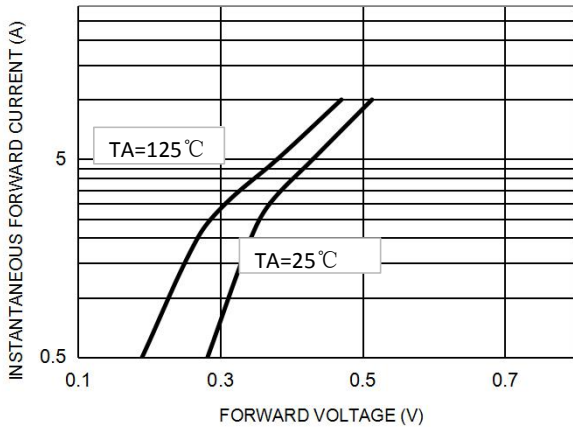
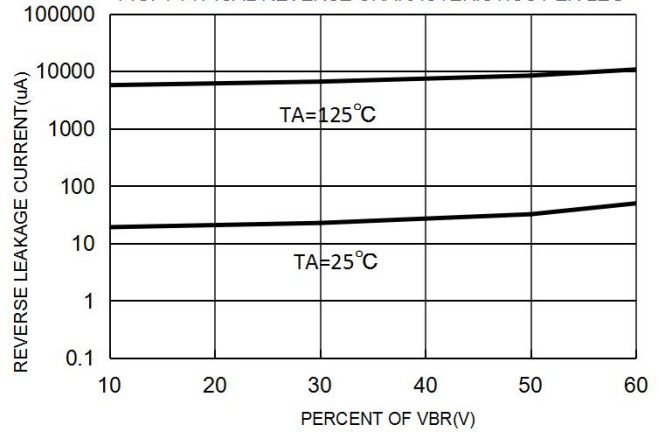
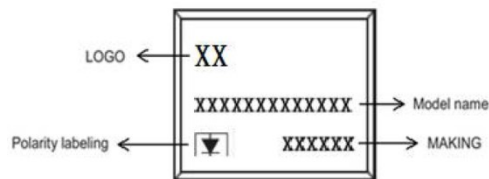


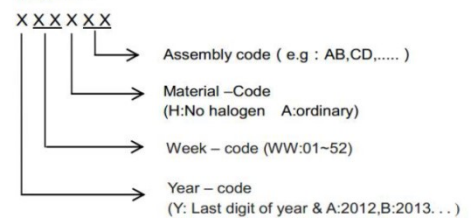
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



**Marking on the body**



**MAKING:**



**Ordering information**

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SRM10L60SCT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRM10L60SFCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRM10L60SDC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SRM10L60SDC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	800pcs/box4000pcs/carton
SRM10L60SCS	TO-252	0.011oz(0.32g)	2500 pcs / reel	2500 pcs / box 12500pcs/carton

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

Package Outline Dimensions millimeters

**TO-220AB**

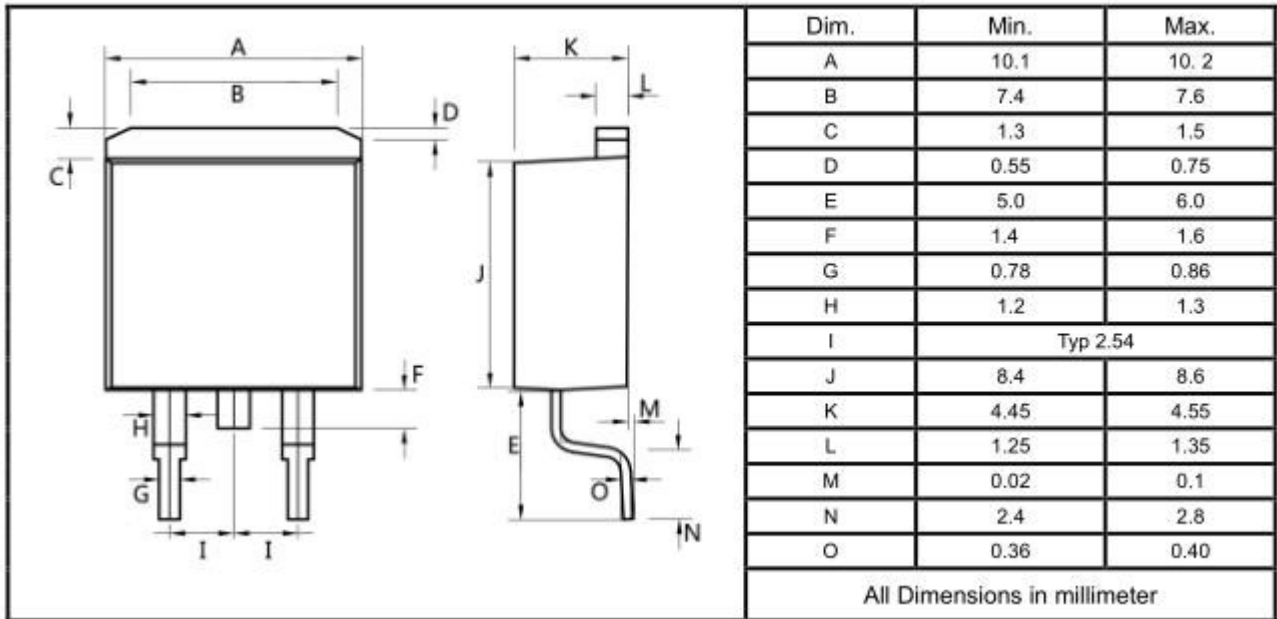
	Dim.	Min.	Max.
	A	10.15	10.35
	B	2.65	2.95
	C	3.70	3.90
	D	28.5	29.5
	E	1.30	1.45
	F	6.35	6.55
	G	2.9	3.3
	H	15.0	16.0
	I	0.38	0.42
	J	4.45	4.55
	K	1.25	1.35
	L	Typ 5.08	
	M	Typ 2.54	
N	3.1	3.3	
Q	0.76	0.84	
All Dimensions in millimeter			

**TO-220F**

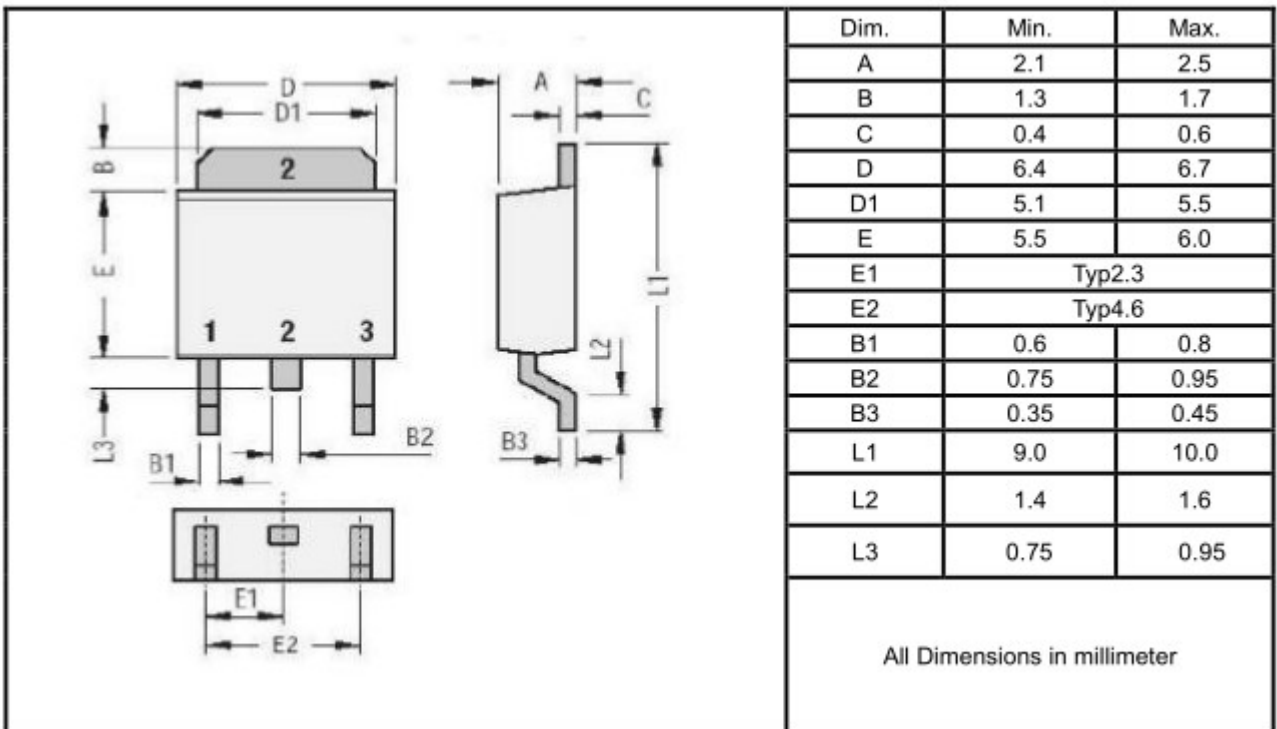
	Dim.	Min.	Max.
	A	9.95	10.25
	B	2.95	3.25
	C	1.25	1.45
	D	12.95	13.25
	E	0.50	0.65
	F	3.1	3.3
	G	1.30	1.45
	H	Typ 2.54	
	I	Typ 5.08	
	J	4.60	4.75
	K	2.50	2.65
	L	6.35	6.55
	M	15.4	16.0
	N	2.75	3.05
	O	0.48	0.52
	P	0.76	0.84
All Dimensions in millimeter			

Package Outline Dimensions millimeters

TO-263



TO-252



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