

Trench MOS Barrier Schottky Rectifier

Reverse Voltage - 150 V

Forward Current – 10 A

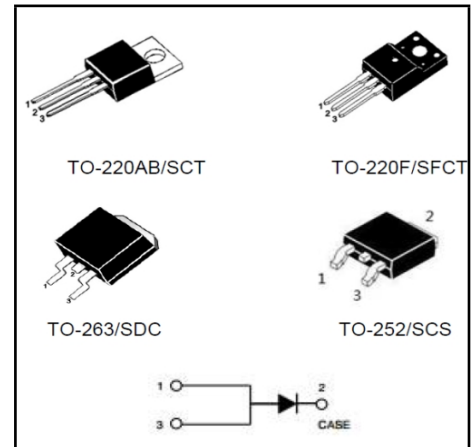


FEATURES

- ◆Very 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

| | |
|-----------|-------|
| I_o | 10A |
| V_{RRM} | 150V |
| I_{FSM} | 160A |
| V_F | 0.67V |
| T_J Max | 150°C |

Maximum Ratings (Per Leg) at $T_a=25^\circ\text{C}$ unless otherwise specified

| Parameter | Symbols | Value | Units |
|---|---------------------------------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 150 | V |
| Maximum RMS voltage | V_{RMS} | 150 | V |
| Maximum DC Blocking Voltage | V_{DC} | 150 | V |
| Maximum Average Forward Rectified Current | I_o | 10 | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave | I_{FSM} | 160 | A |
| Operating Temperature Range | T_J | -50 ~ +150 | °C |
| Storage Temperature Range | T_{STG} | -50 ~ +150 | °C |
| Typical Thermal Resistance (Note1) TO-220AB TO-263 TO-252 TO-220F | $R_{\theta JA} / R_{\theta JC}$ | 2/4 | °C/W |

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) at $I_F=3A$ at $I_F=5A$ at $I_F=10A$ | V_F | TA=25°C | 0.64 | - | V |
| | | TA=125°C | 0.53 | - | |
| | | TA=25°C | 0.71 | 0.78 | |
| | | TA=125°C | 0.58 | - | |
| | | TA=25°C | 0.81 | 0.96 | |
| | | TA=125°C | 0.67 | - | |
| Maximum Reverse Current at $V_R=150V$ | I_R | TA=25°C | 1.5 | 5 | uA |
| | | TA=125°C | 1.5 | - | mA |

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

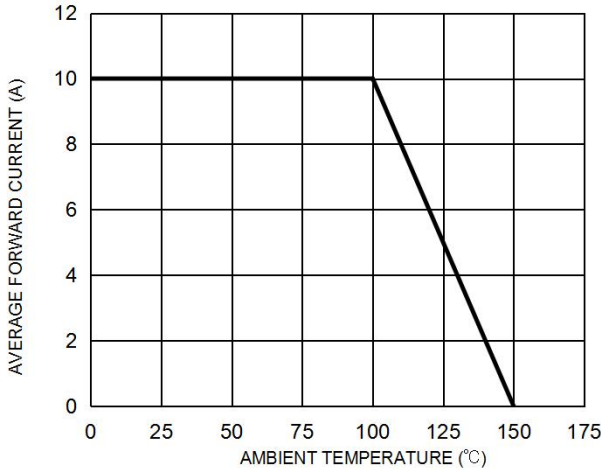


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

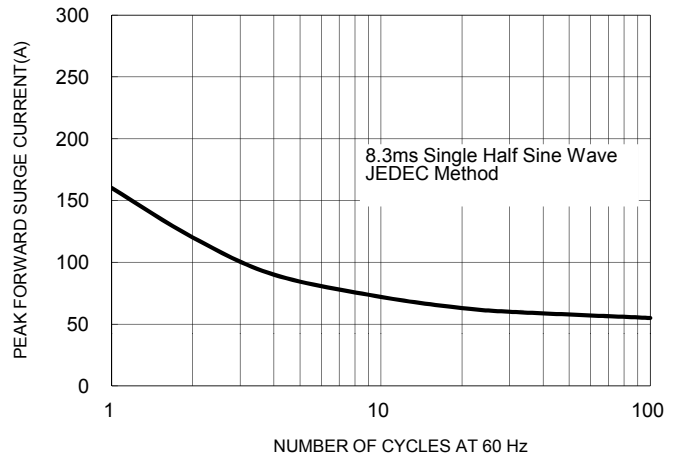


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

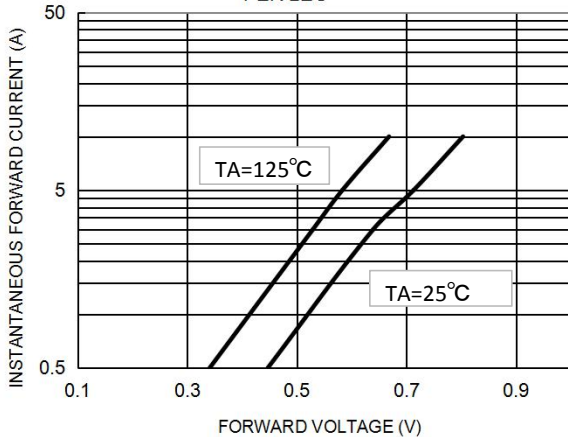
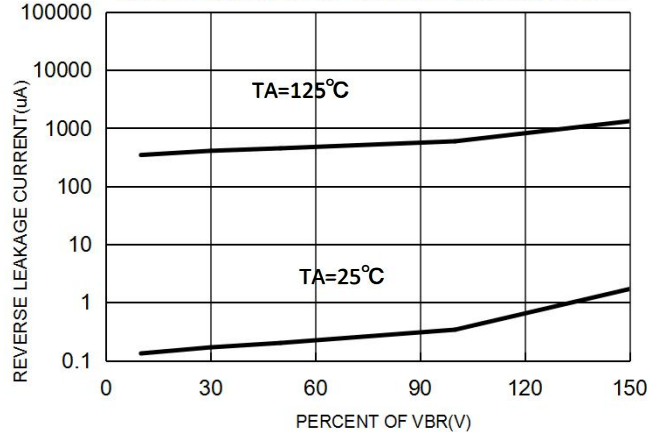
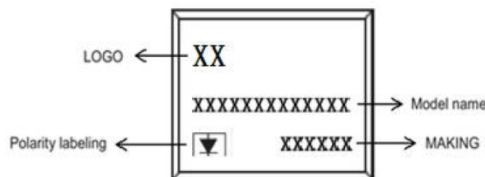


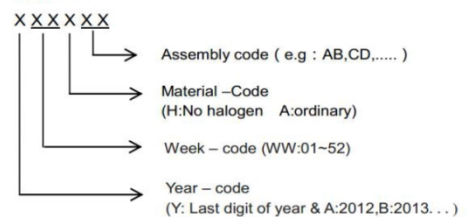
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking on the body



MAKING:



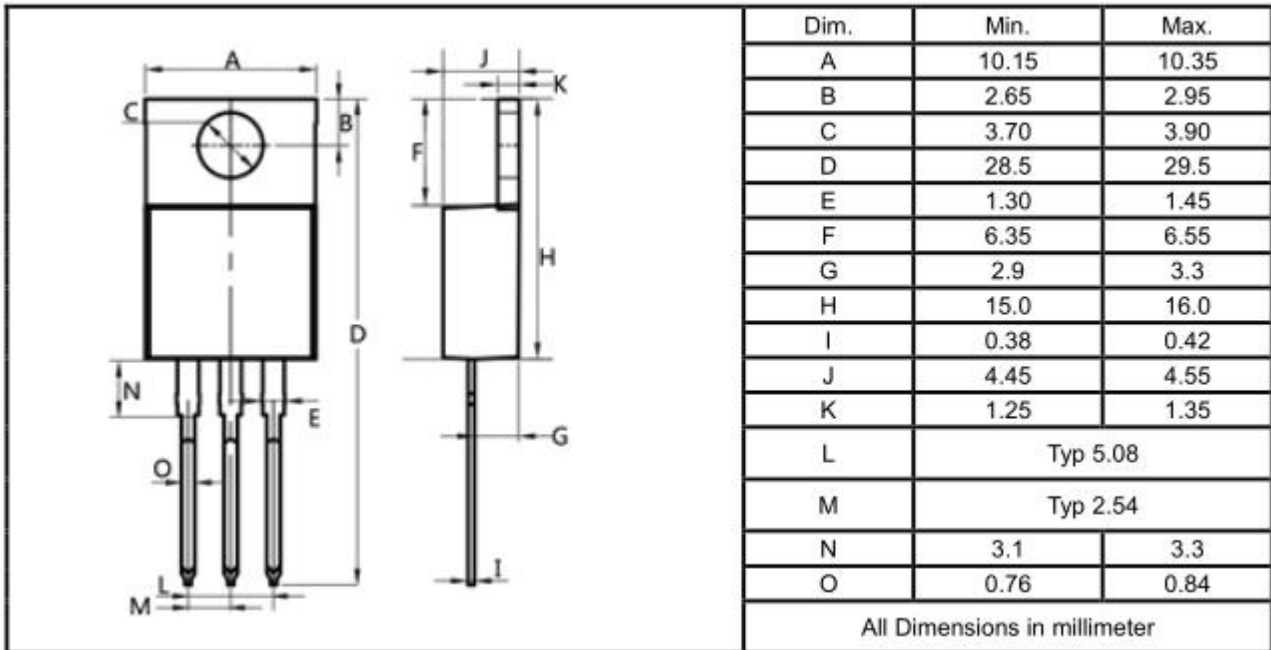
Ordering information

| Part Number | Package | Unit Weight | Base Quantity | Delivery mode |
|----------------|----------|----------------|-----------------|--------------------------------|
| SRT10L150SCT | TO-220AB | 0.07oz(1.96g) | 50 pcs / tube | 1000pcs/box 5000pcs/carton |
| SRT10L150SFCT | TO-220F | 0.06oz(1.74g) | 50 pcs / tube | 1000pcs/box 5000pcs/carton |
| SRT10L150SDC | TO-263 | 0.04oz(1.16g) | 50 pcs / tube | 1000pcs/box 5000pcs/carton |
| SRT10L150SDC-R | TO-263 | 0.04oz(1.16g) | 800 pcs / reel | 800pcs/box4000pcs/carton |
| SRT10L150SCS | TO-252 | 0.011oz(0.32g) | 2500 pcs / reel | 2500 pcs / box 12500pcs/carton |

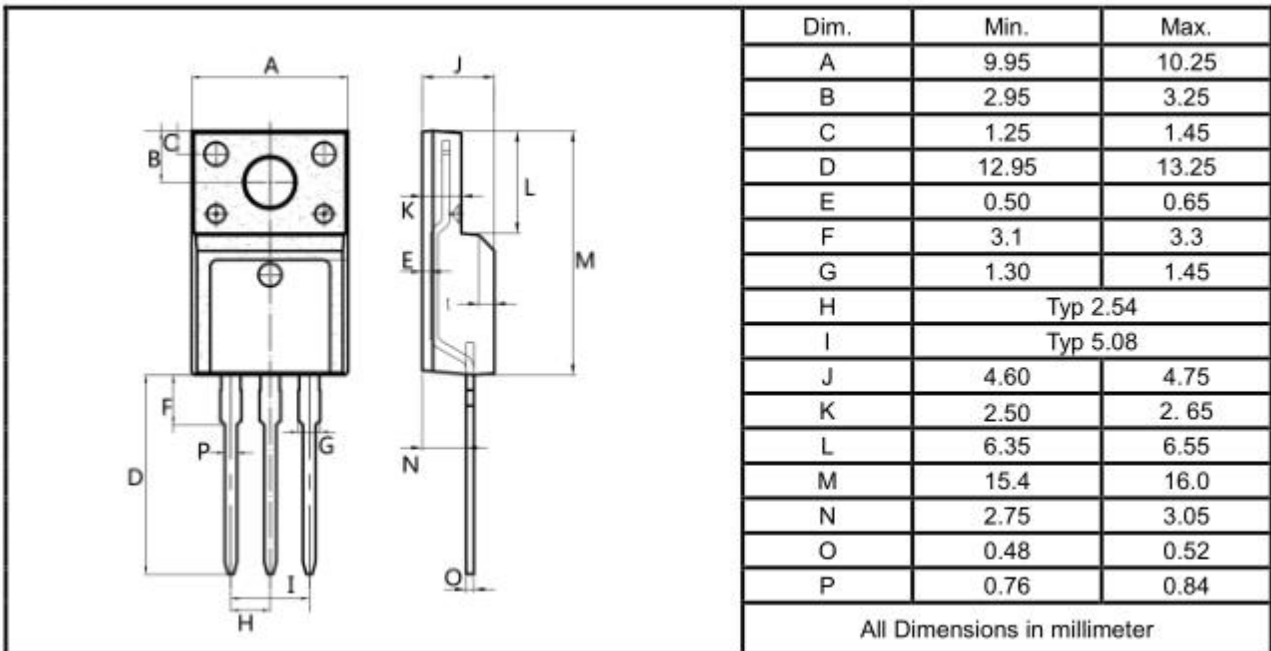
Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

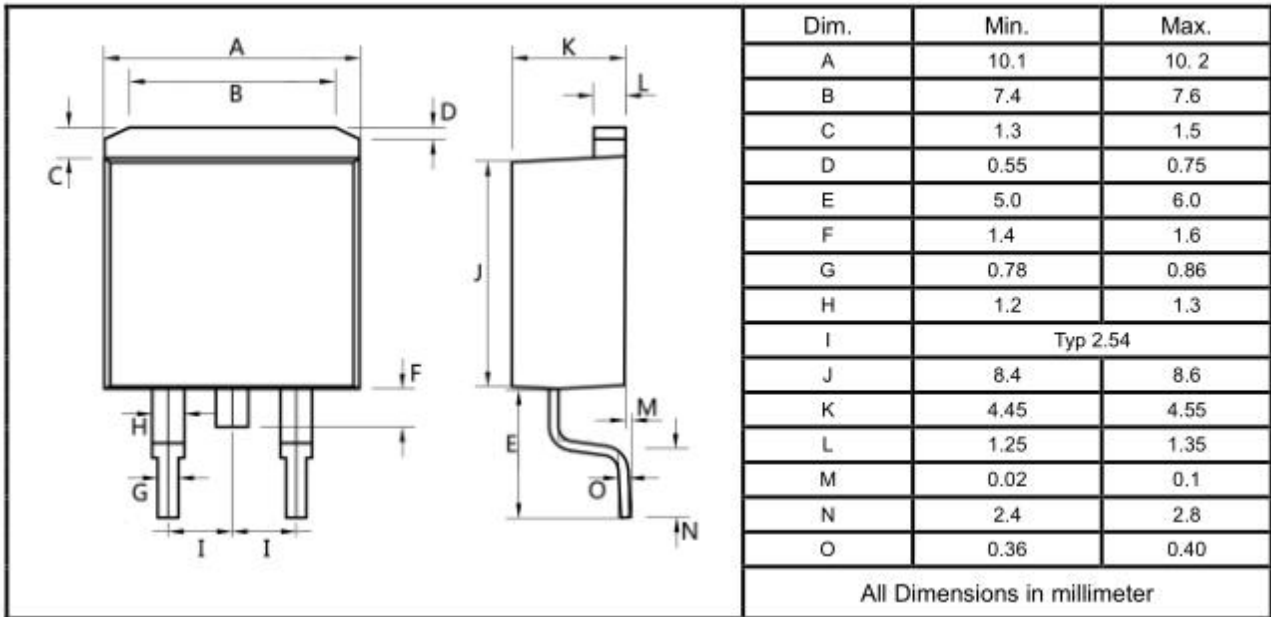
TO-220AB



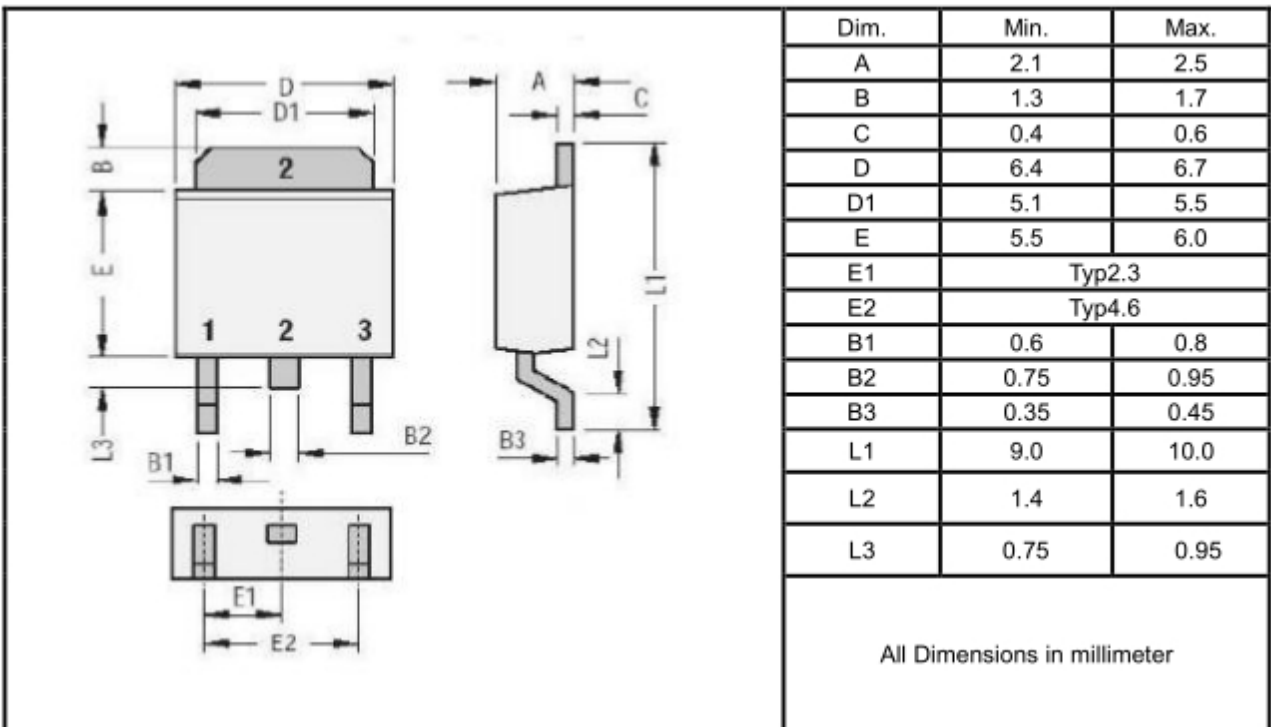
TO-220F



TO-263



TO-252



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