

SF20L60U

Fast Recovery Diodes

600V, 20A

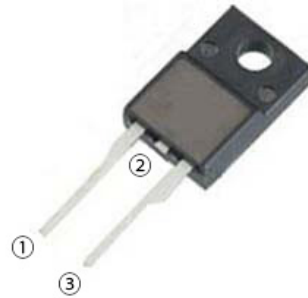
Feature

- Full Molded
- High Voltage
- Low Noise
- Dielectric Strength 2kV
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FTO-220

Package (JEITA Code): SC-91A



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

| Item | Symbol | Conditions | Ratings | Unit |
|---------------------------------|--------------------|---|------------|------|
| Storage temperature | Tstg | | -55 to 150 | °C |
| Junction temperature | Tj | | 150 | °C |
| Repetitive peak reverse voltage | V _{RRM} | | 600 | V |
| Average forward current | I _{F(AV)} | 50Hz sine wave, Resistance load, Tc=68°C | 20 | A |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C | 180 | A |
| Dielectric strength | Vdis | Terminals to case, AC 1 minute | 2 | kV |
| Mounting torque | TOR | (Recommended torque : 0.3N·m) | 0.5 | N·m |

※ :See the original Specifications

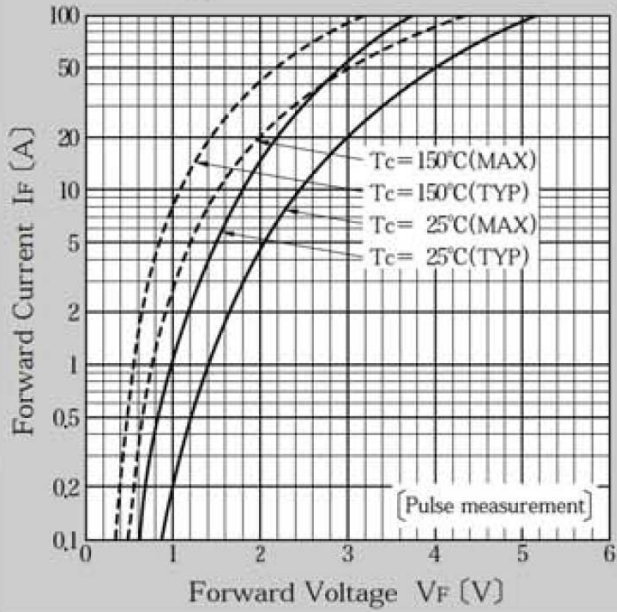
Electrical Characteristics (unless otherwise specified : Tc=25°C)

| Item | Symbol | Conditions | Ratings | | | Unit |
|-----------------------|----------|----------------------------|---------|-----|-----|----------------|
| | | | MIN | TYP | MAX | |
| Forward voltage | V_F | IF=20A, Pulse measurement | | | 3 | V |
| Reverse current | I_R | VR=600V, Pulse measurement | | | 25 | μ A |
| Reverse recovery time | trr | IF=0.5A, IR=1A | | | 35 | ns |
| Total capacitance | Ct | f=1MHz, VR=10V | | 105 | | pF |
| Thermal resistance | Rth(j-c) | Junction to case | | | 1.3 | $^{\circ}$ C/W |

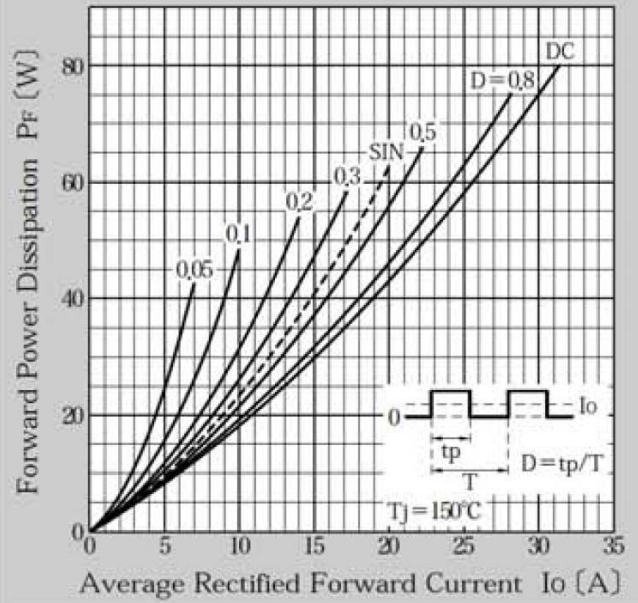
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

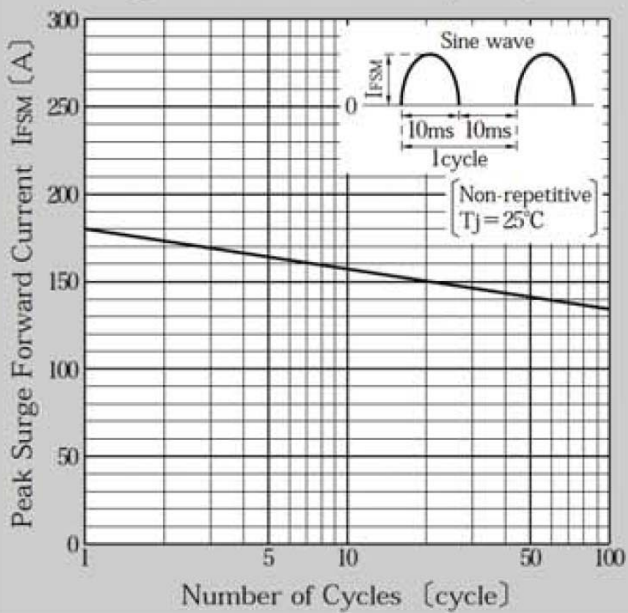
Forward Voltage



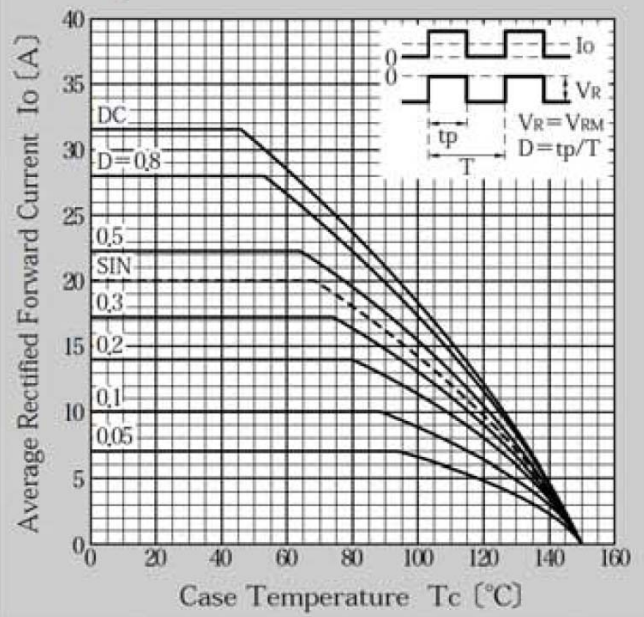
Forward Power Dissipation



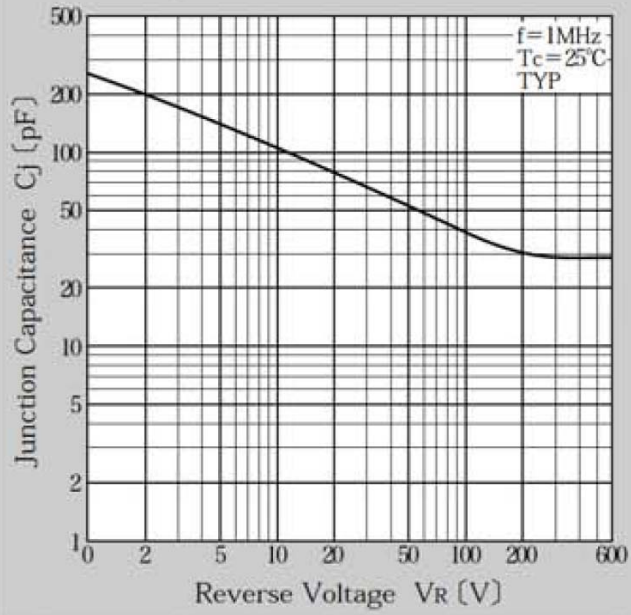
Peak Surge Forward Current Capability



Derating Curve T_c - I_o



Junction Capacitance

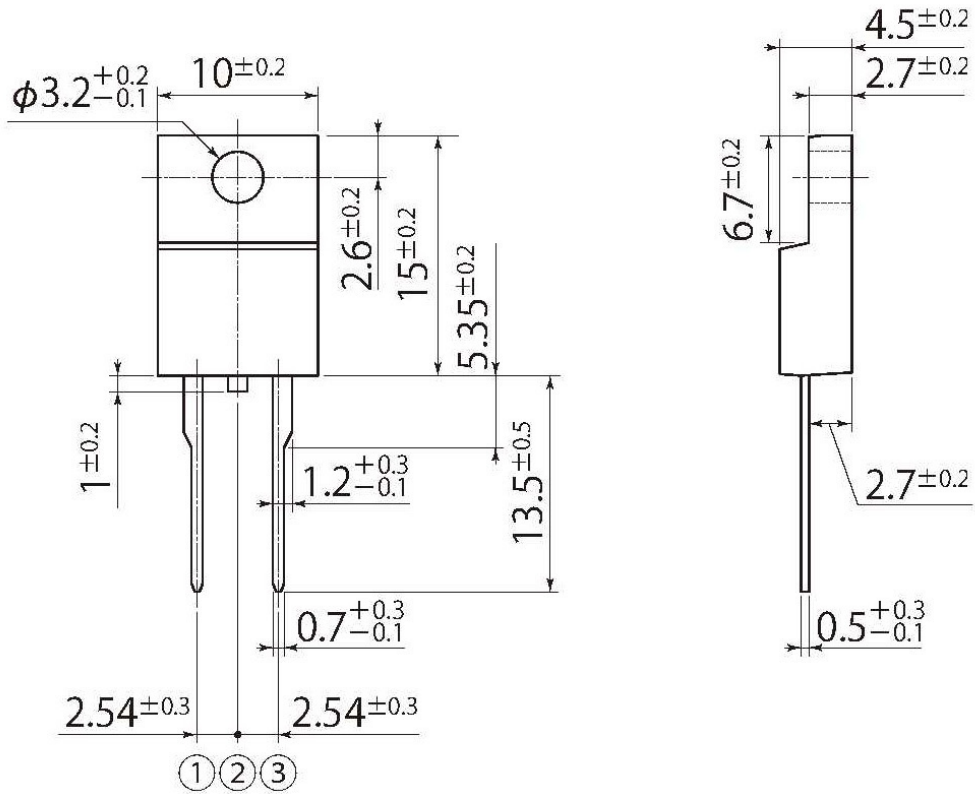


Outline Dimensions

unit:mm

J1

| | |
|------------|---------------|
| JEDEC Code | - |
| JEITA Code | SC-91A |
| House Name | FTO-220(2pin) |



Notes

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