

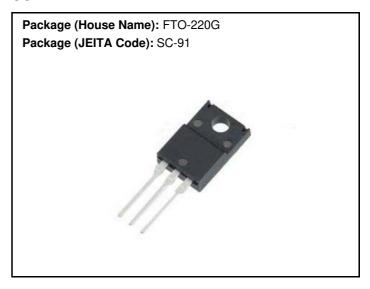
SG30SC6M

Schottky Barrier Diodes 60V, 30A

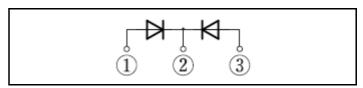
Feature

- · High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

| Item | Symbol | Conditions | Ratings | Unit |
|---------------------------------------|---------------------|--|------------|------|
| Storage temperrature | Tstg | | -55 to 150 | °C |
| Junction temperature | Tj | | -55 to 150 | °C |
| Repetitive peak reverse voltage | V_{RRM} | | 60 | V |
| Repetitive peak surge reverse voltage | V_{RRSM} | Pulse width 0.5ms, duty=1/40 | 65 | V |
| Average forward current | I _F (AV) | 50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=100°C | 30 | Α |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C | 300 | Α |
| Dielectric strength | Vdis | Terminals to case backside, AC 1 minute. | 1.5 | kV |
| Mounting torque | TOR | (Recommended torque : 0.3N⋅m) | 0.5 | N∙m |

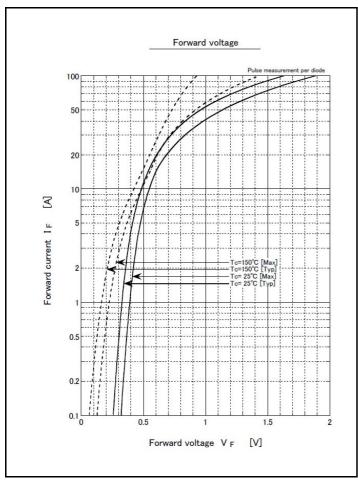
^{* :} See the original Specifications

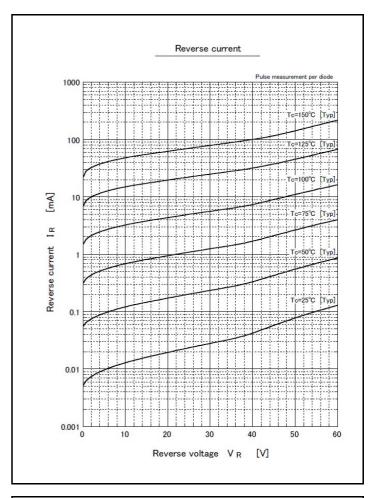
Electrical Characteristics (unless otherwise specified : Tc=25°C)

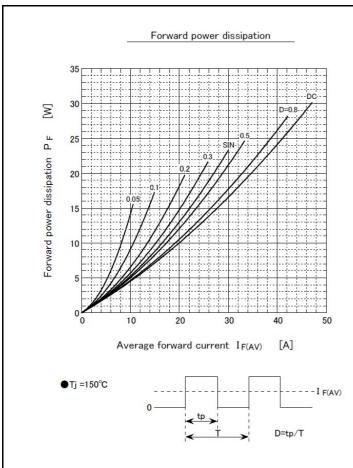
| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------------|--------------------------------------|---------|------|------|------|
| | | | MIN | TYP | MAX | |
| Forward voltage | V _F | IF=15A, Pulse measurement, per diode | | 0.55 | 0.61 | V |
| Reverse current | I _R | VR=60V, Pulse measurement, per diode | | | 1.2 | mA |
| Total capacitance | Ct | f=1MHz, VR=10V, per diode | | 385 | | pF |
| Thermal resistance | Rth(j-c) | Junction to case, With heatsink | | | 2 | °C/W |

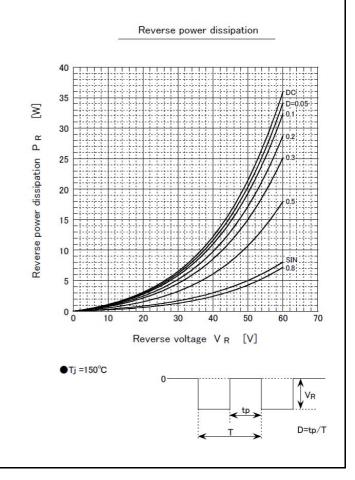
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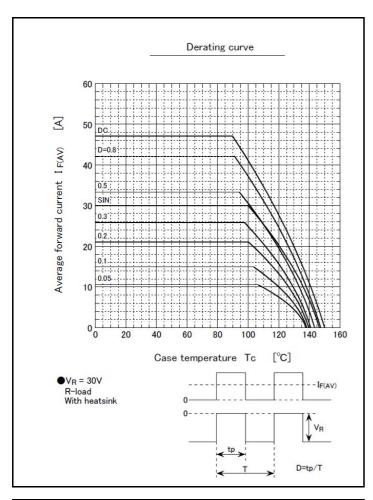
CHARACTERISTIC DIAGRAMS

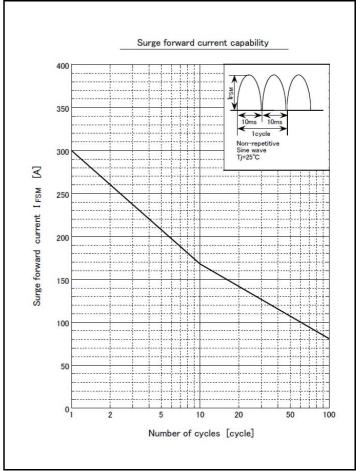


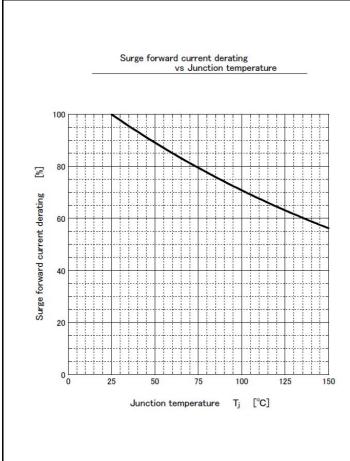


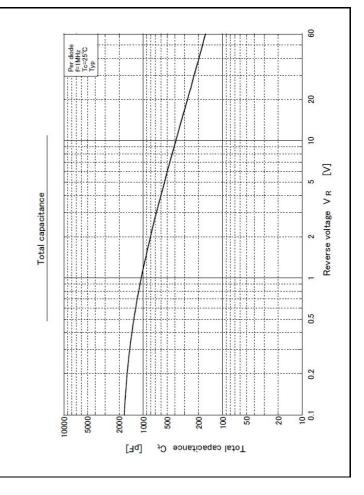


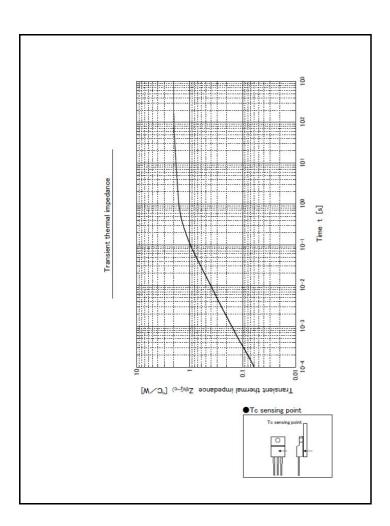






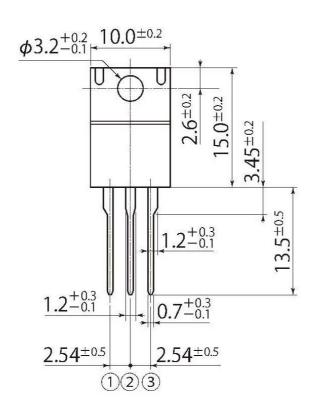


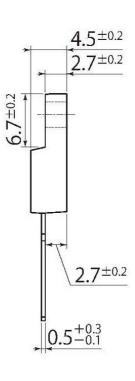




J9

| JEDEC Code | - | | |
|------------|----------------|--|--|
| JEITA Code | SC-91 | | |
| House Name | FTO-220G(3pin) | | |





Notes

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