

SG20JC6M

Schottky Barrier Diodes
60V, 20A

Feature

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

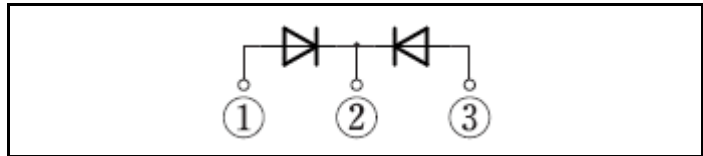
OUTLINE

Package (House Name): FTO-220G

Package (JEITA Code): SC-91



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 | VRRM | | 60 | V |
| Repetitive peak surge reverse voltage | VRRSM | Pulse width 0.5ms, duty=1/40 | 65 | V |
| Average forward current | IF(AV) | 50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=106°C | 20 | A |
| Surge forward current | IFSM | 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C | 200 | A |
| 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 |

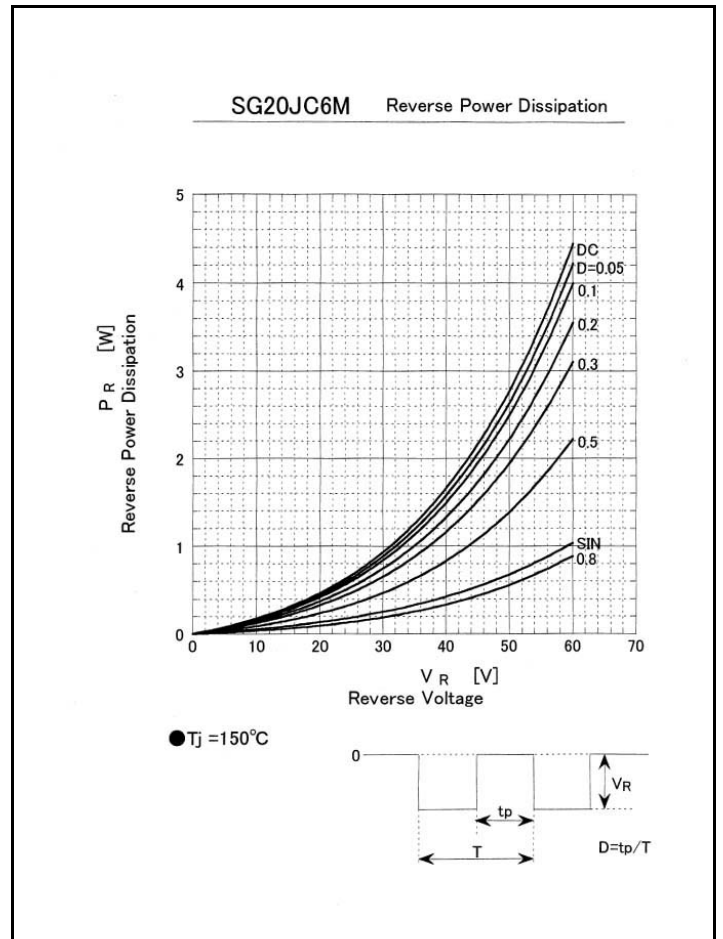
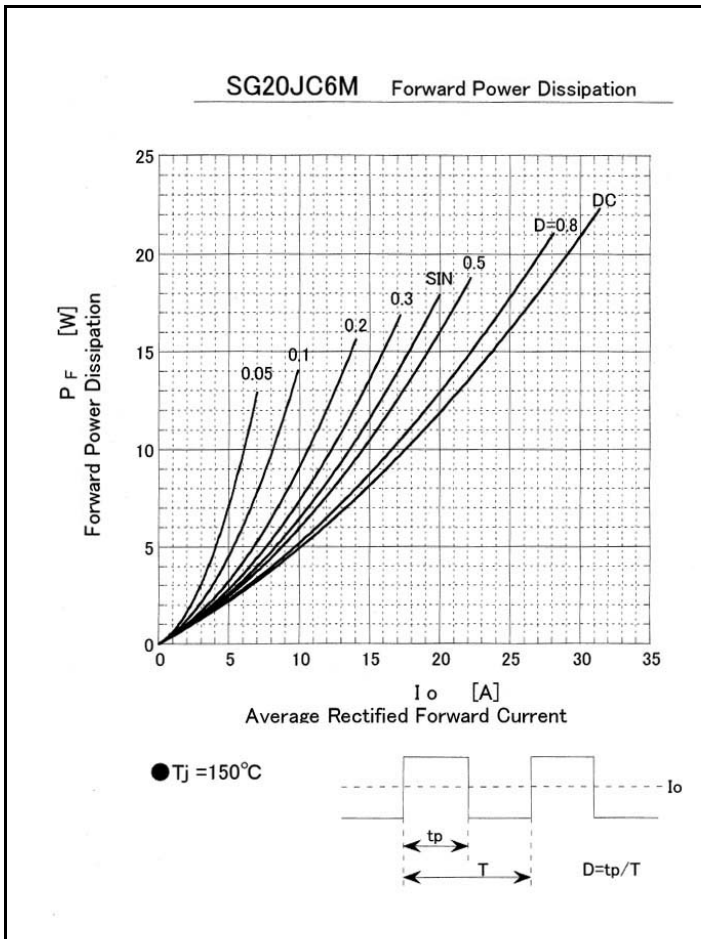
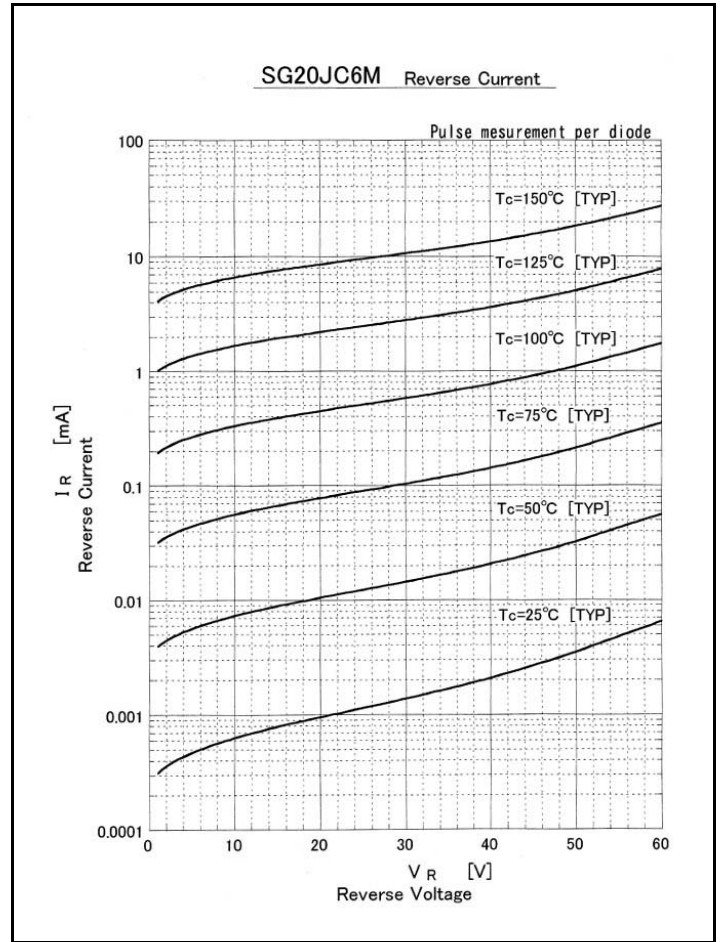
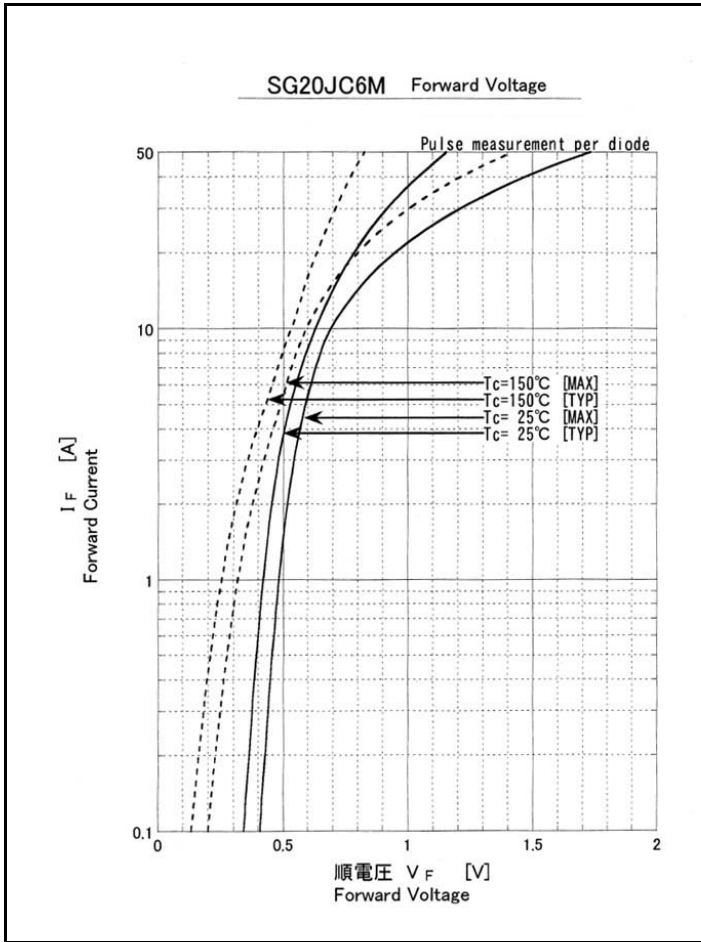
※ : See the original Specifications

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

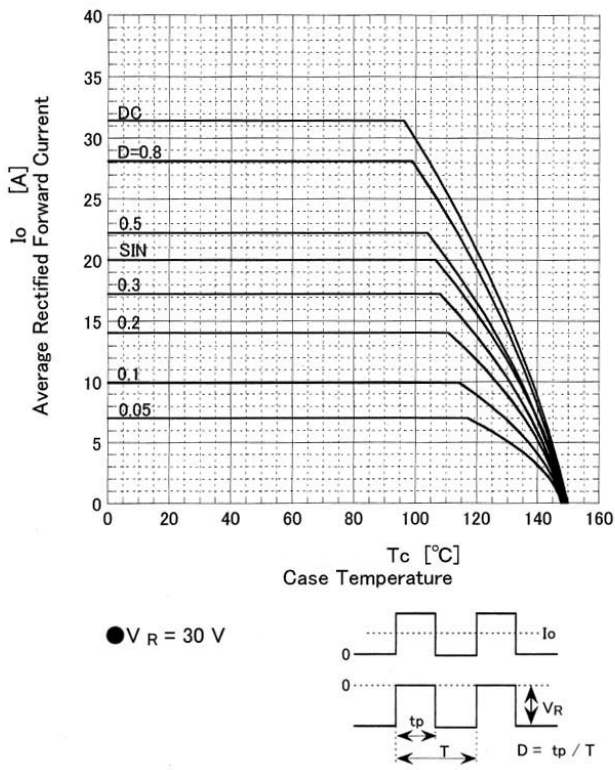
| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------------------|---|---------|------|------|------|
| | | | MIN | TYP | MAX | |
| Forward voltage | V _F | I _F =10A, Pulse measurement, per diode | | 0.63 | 0.69 | V |
| Reverse current | I _R | V _R =60V, Pulse measurement, per diode | | | 0.1 | mA |
| Total capacitance | C _t | f=1MHz, V _R =10V, per diode | | 250 | | pF |
| Thermal resistance | R _{th(j-c)} | Junction to case | | | 2.4 | °C/W |

* : See the original Specifications

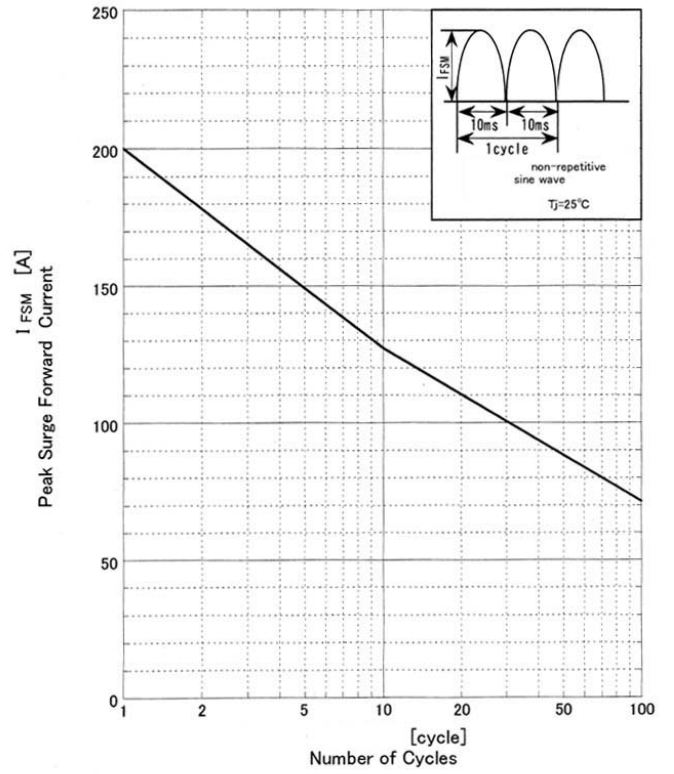
CHARACTERISTIC DIAGRAMS



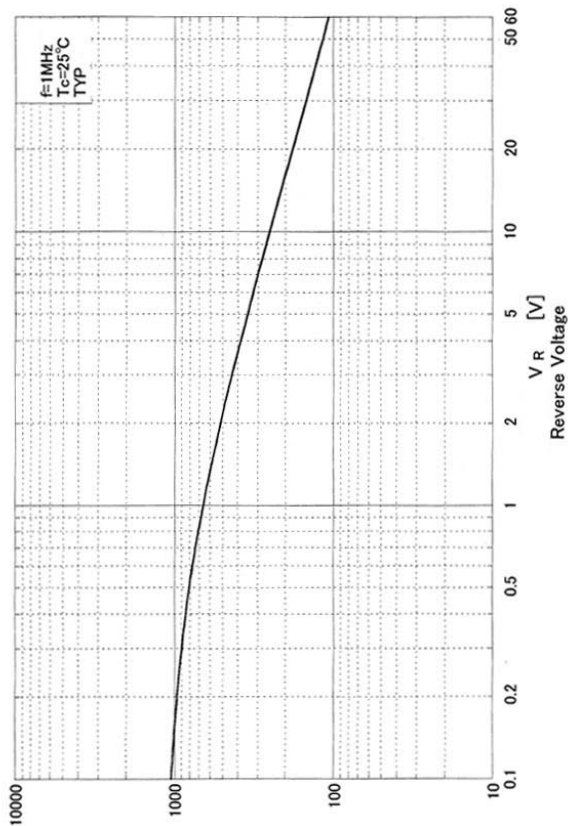
SG20JC6M Derating Curve



SG20JC6M Peak Surge Forward Capability

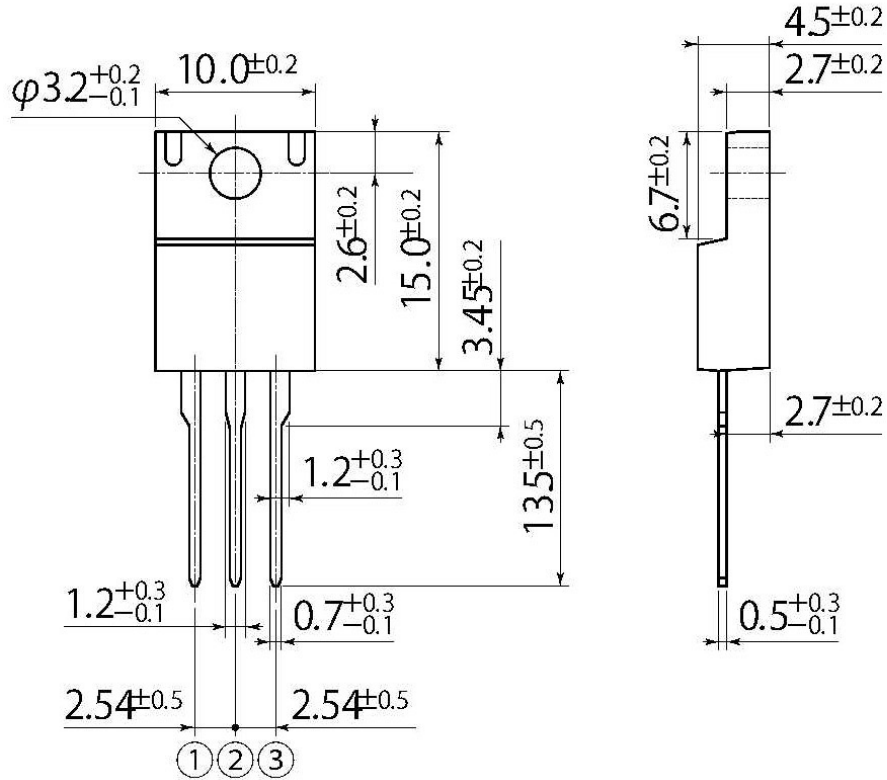


SG20JC6M Junction Capacitance



J9

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



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