SG10SC3LM

Schottky Barrier Diodes 30V, 10A

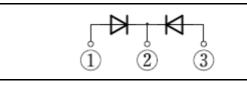
Feature

- High Recovery Speed
- $\bullet \ Low \ V_F$
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



| Item | Symbol | Conditions | Ratings | Unit |
|---------------------------------------|---------------------|---|------------|------|
| Storage temperrature | Tstg | | -55 to 150 | °C |
| Junction temperature | Tj | | 150 | °C |
| Repetitive peak reverse voltage | V _{RRM} | | 30 | V |
| Repetitive peak surge reverse voltage | V _{RRSM} | Pulse width 0.5ms, duty=1/40 | 35 | V |
| Average forward current | I _F (AV) | 50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=136°C | 10 | A |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C | 150 | А |
| Surge forward current | I _{FSM1} | tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C | 325 | 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 |

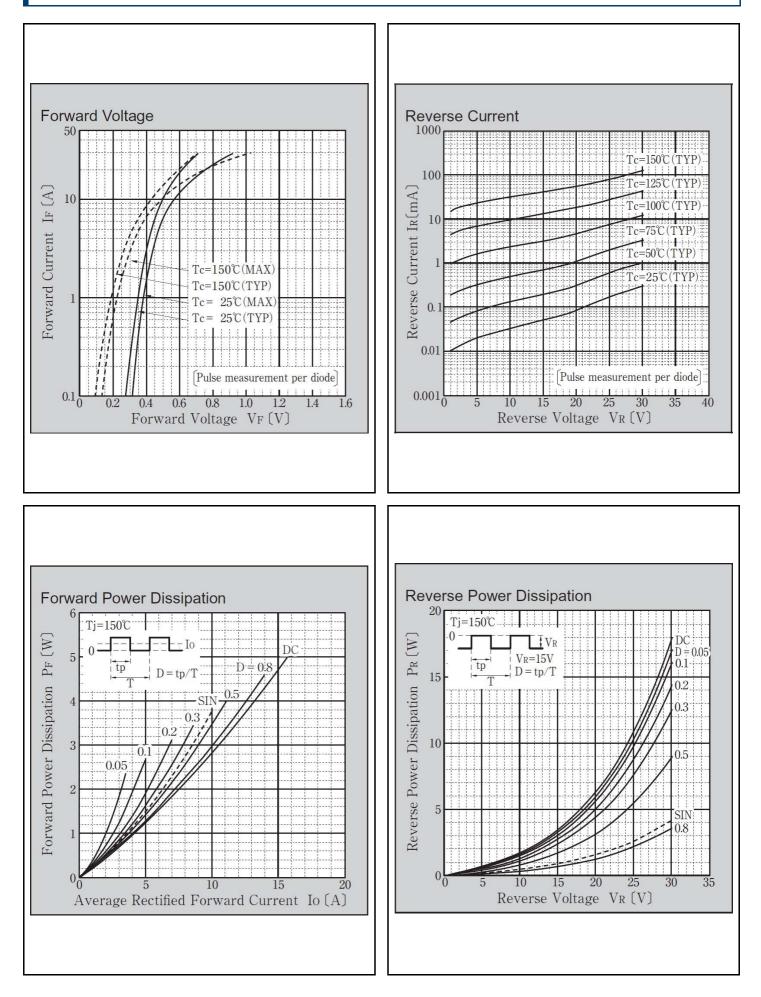
* : See the original Specifications

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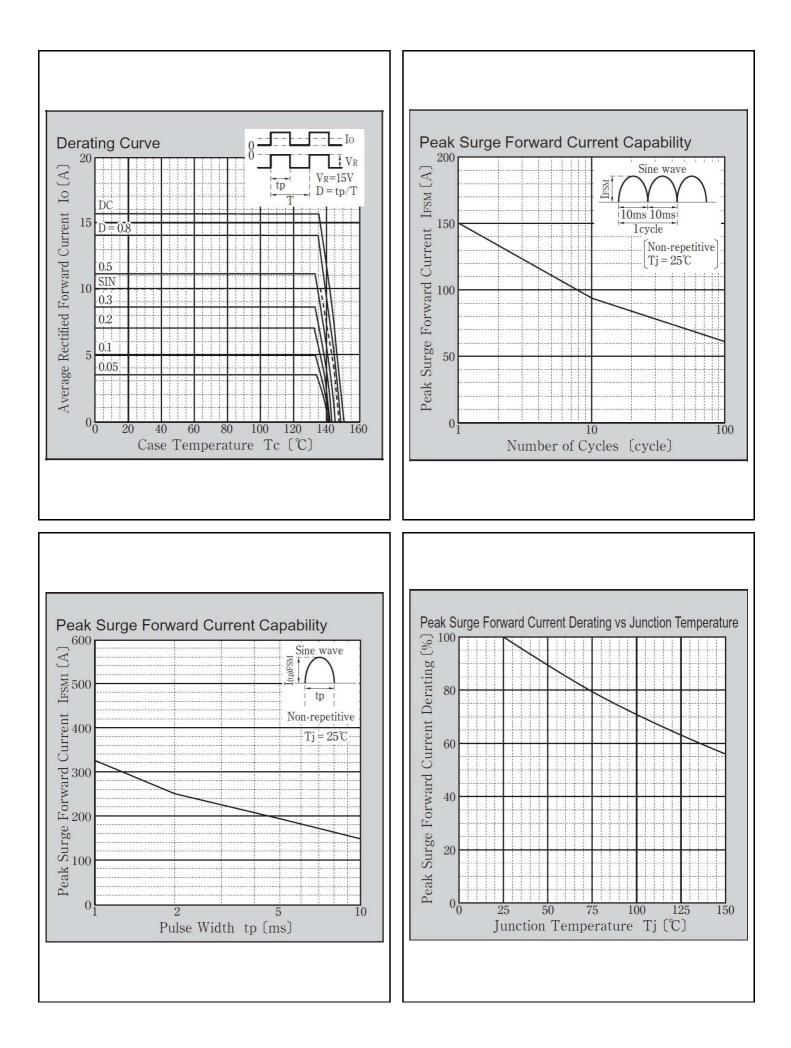
| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------------|--------------------------------------|---------|-----|------|------|
| | | | MIN | ТҮР | MAX | Onic |
| Forward voltage | V _F | IF=4A, Pulse measurement, per diode | | 0.4 | 0.45 | V |
| Reverse current | I _R | VR=30V, Pulse measurement, per diode | | | 5 | mA |
| Total capacitance | Ct | f=1MHz, VR=10V, per diode | | 310 | | pF |
| Thermal resistance | Rth(j-c) | Junction to case | | | 3 | °C/W |

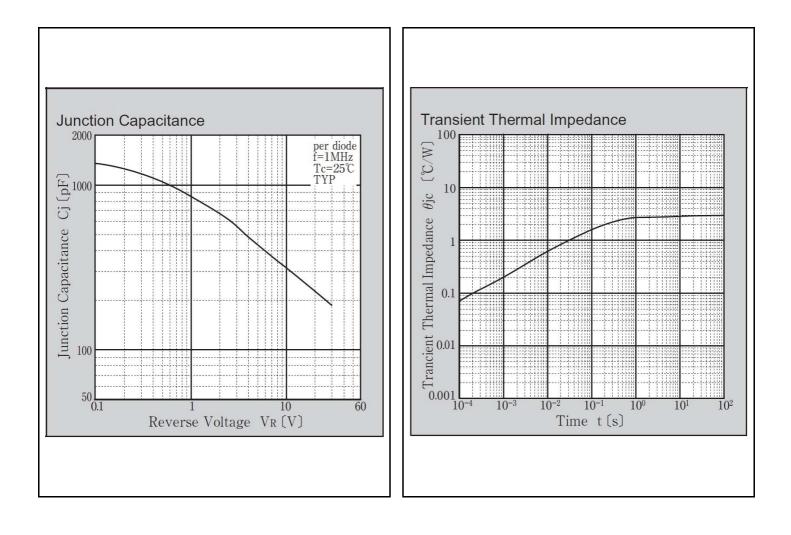
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CHARACTERISTIC DIAGRAMS



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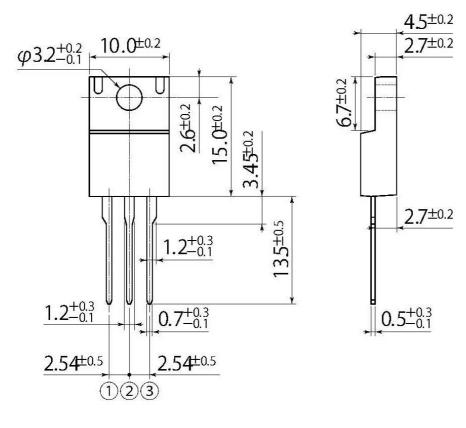




unit:mm

scale: 2/1

| J9 | JEDEC Code | — | | | | |
|----|------------|----------------|--|--|--|--|
| | JEITA Code | SC-91 | | | | |
| | House Name | FTO-220G(3pin) | | | | |



Notes

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