

DF10L60

Fast Recovery Diodes 600V, 10A

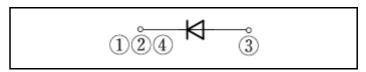
Feature

- SMD
- High Voltage
- Low Noise
- · 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 | | 150 | °C |
| Repetitive peak reverse voltage | V _{RRM} | | 600 | V |
| Average forward current | I _F (AV) | 50Hz sine wave, Resistance load, Tc=105°C | 10 | Α |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C | 100 | Α |

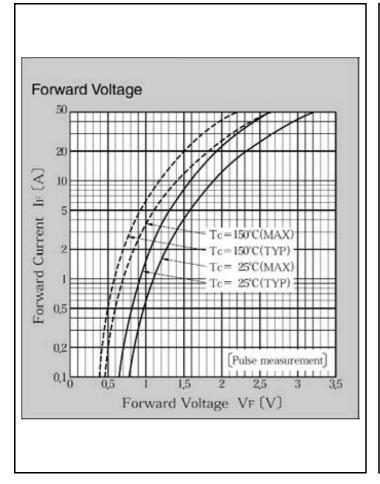
^{* :}See the original Specifications

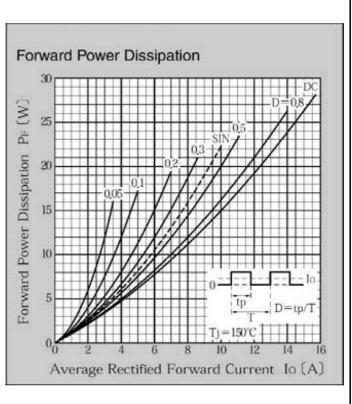
Electrical Characteristics (unless otherwise specified : Tc=25°C)

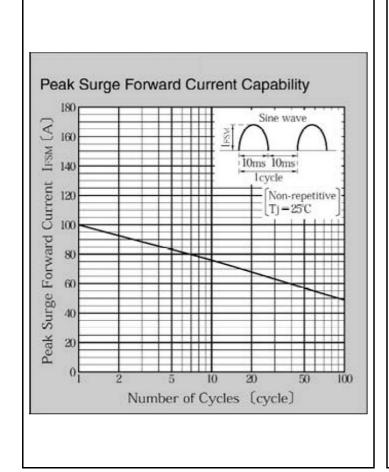
| Item | Symbol | Conditions | Ratings | | | Unit |
|-----------------------|----------------|----------------------------|---------|-----|-----|------|
| | | | MIN | TYP | MAX | |
| Forward voltage | V _F | IF=10A, Pulse measurement | | | 1.9 | V |
| Reverse current | I _R | VR=600V, Pulse measurement | | | 10 | μΑ |
| Reverse recovery time | trr | IF=0.5A, IR=1.0A | | | 50 | ns |
| Thermal resistance | Rth(j-c) | Junction to case | | | 2 | °C/W |

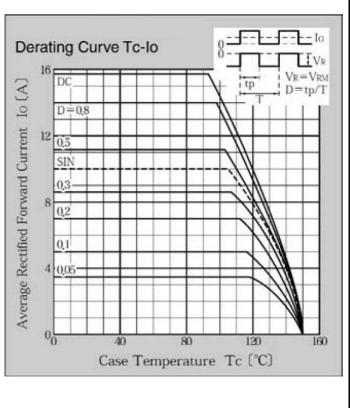
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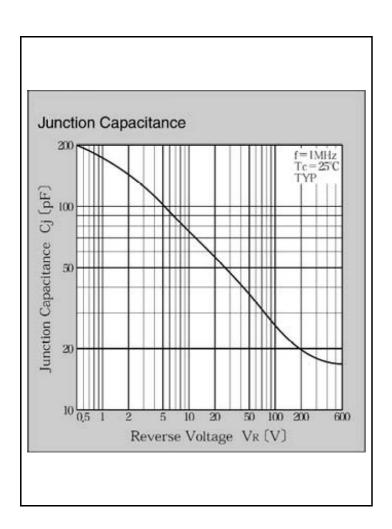
CHARACTERISTIC DIAGRAMS





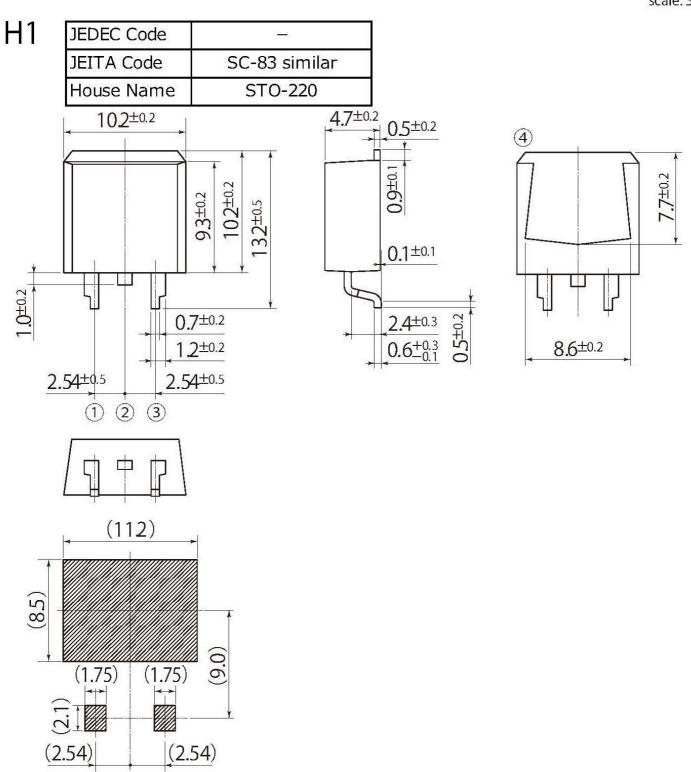






unit:mm

scale: 3/1



[•] Optimize soldering pad to the board design and soldering condition.

Referential Soldering Pad

Notes

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(Special applications)

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