DF40SC4

Schottky Barrier Diodes 40V, 40A

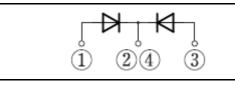
Feature

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

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C) Item Symbol Conditions Ratings Storage temperrature Tstg -55 to 150 Junction temperature Tj -55 to 150 Repetitive peak reverse voltage V_{RRM} 40

| Repetitive peak reverse voltage | V _{RRM} | | 40 | V |
|---------------------------------------|---------------------|--|------|---|
| Repetitive peak surge reverse voltage | V _{RRSM} | Pulse width 0.5ms, duty=1/40 | 45 | V |
| Average forward current | I _F (AV) | 50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=106°C | 40 | А |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C | 350 | А |
| Repetitive peak surge reverse power | P _{RRSM} | Pulse width 10µs, Tj=25°C, per diode | 1000 | W |

* : See the original Specifications

Unit

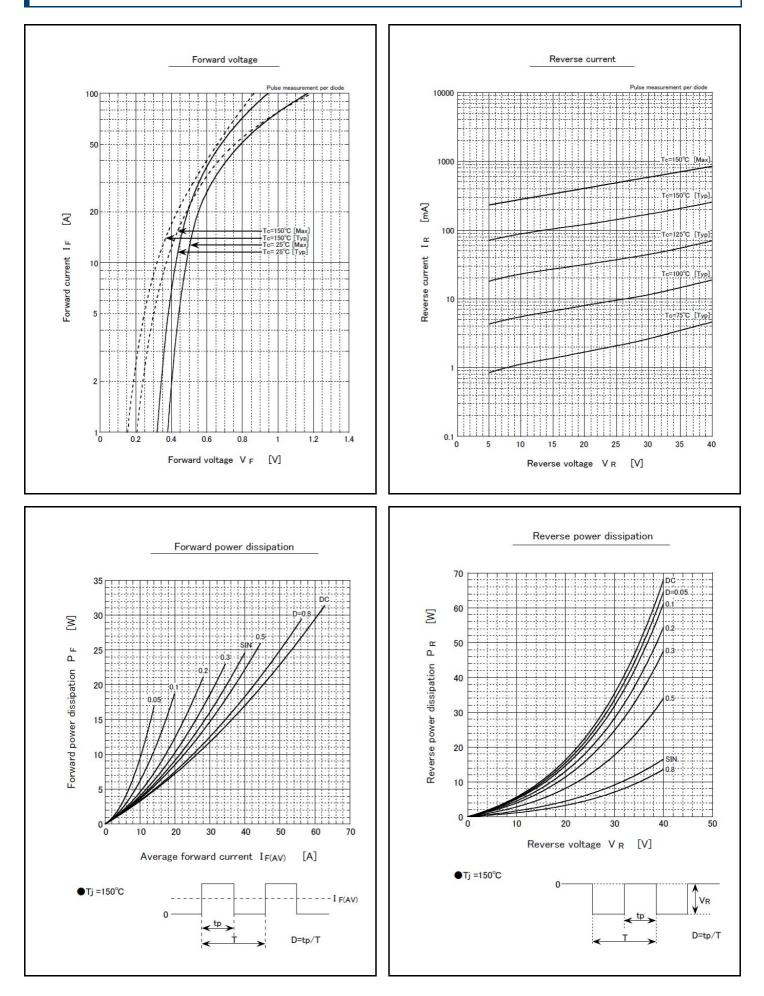
°C

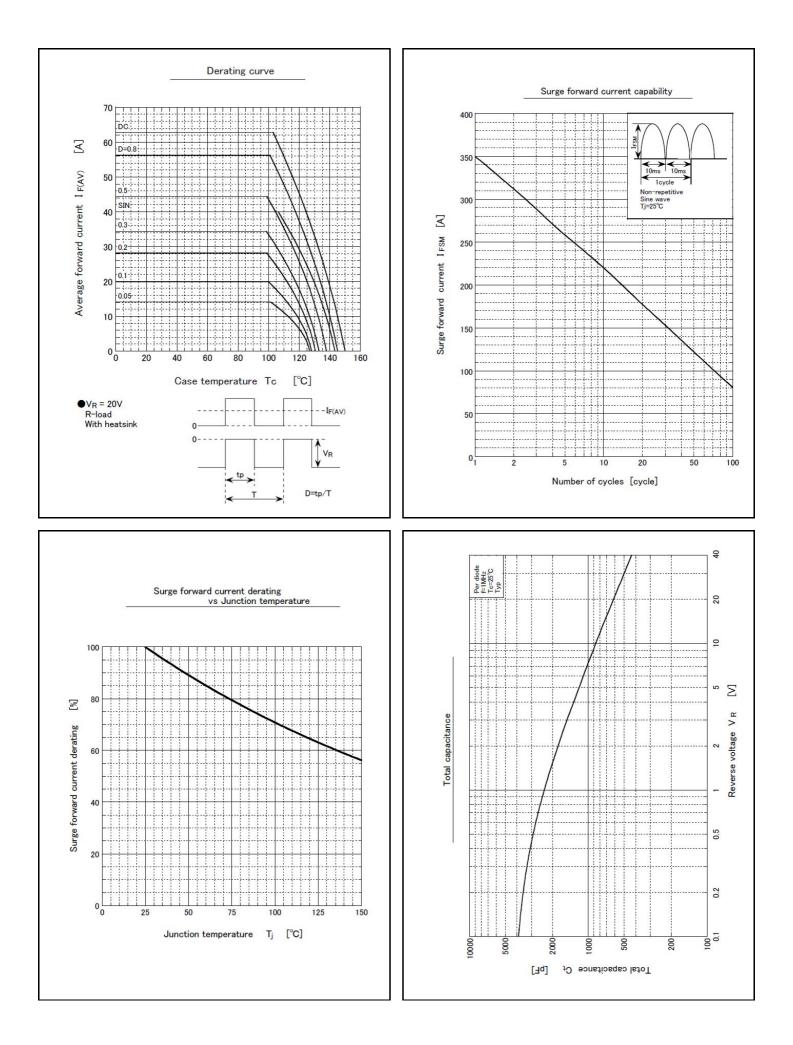
°C

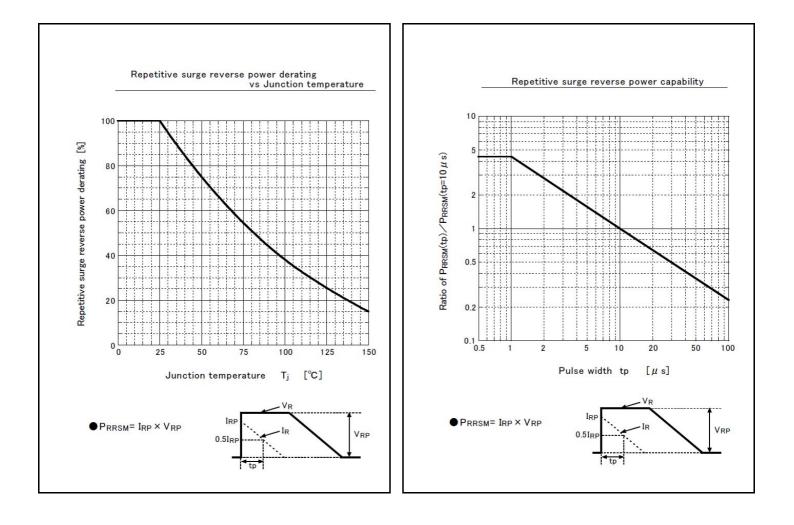
| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------------|--------------------------------------|---------|-----|------|------|
| | | | MIN | ТҮР | MAX | onne |
| Forward voltage | V _F | IF=20A, Pulse measurement, per diode | | | 0.55 | V |
| Reverse current | I _R | VR=40V, Pulse measurement, per diode | | | 14 | mA |
| Total capacitance | Ct | f=1MHz, VR=10V, per diode | | 860 | | pF |
| Thermal resistance | Rth(j-c) | Junction to case, With heatsink | | | 1.5 | °C/W |

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

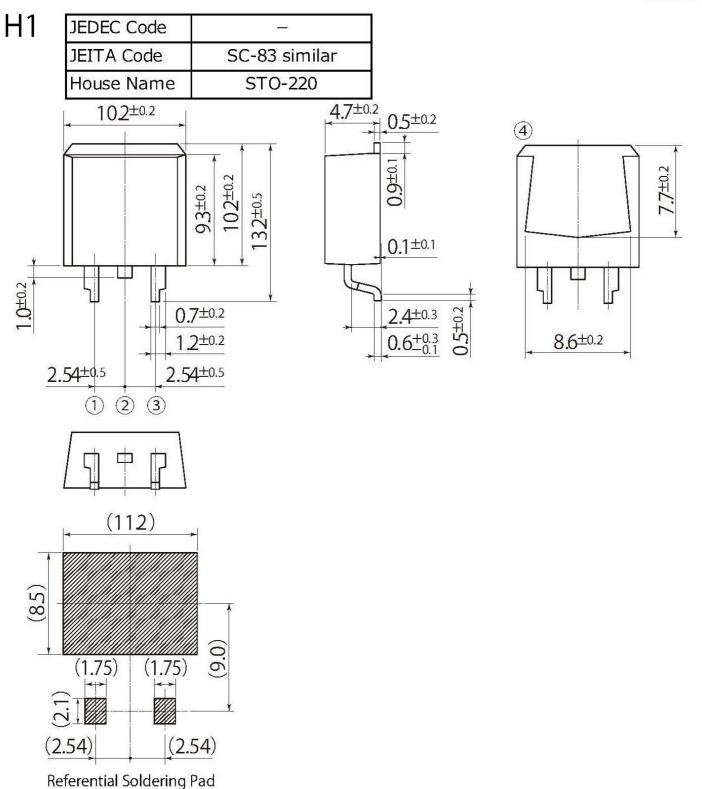






unit:mm

scale: 3/1



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

Notes

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