



DD82RC

Silicon Diffused Junction Type Damper Diode for Ultrahigh-Definition Display Applications

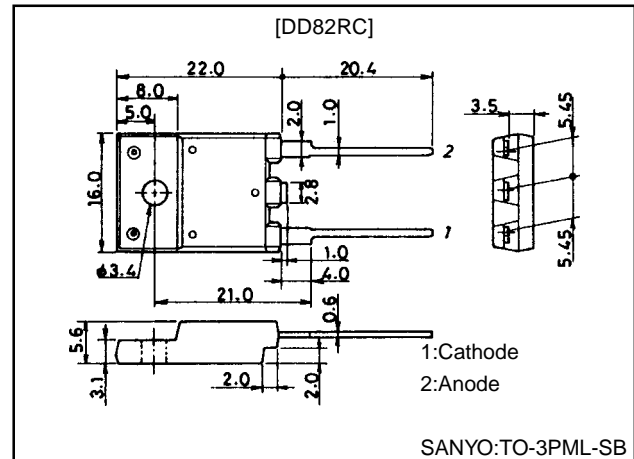
Features

- High breakdown voltage ($V_{RRM} : 1500V$).
- High reliability.
- One-point fixing type plastic molded package facilitating easy mounting and heat dissipation.
- Fast forward/reverse recovery time.

Package Dimensions

unit:mm

1252A



Specifications

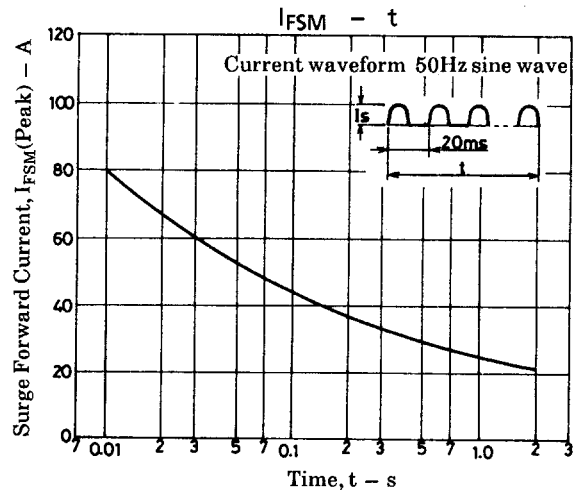
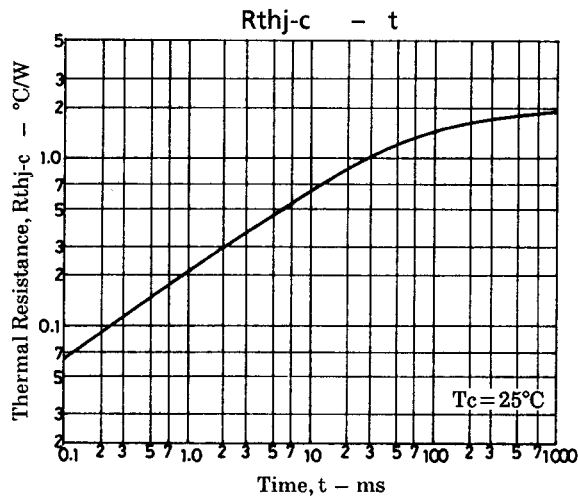
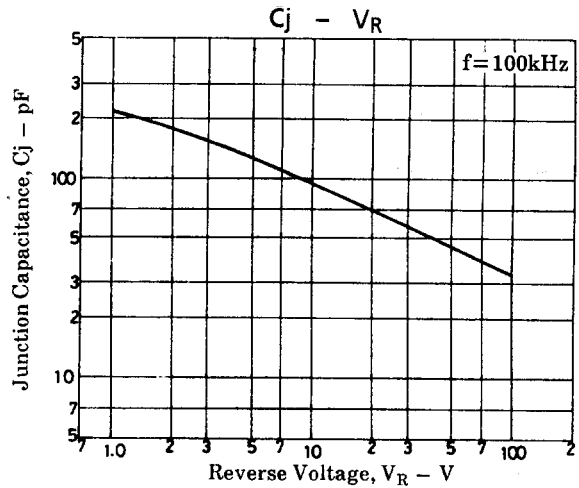
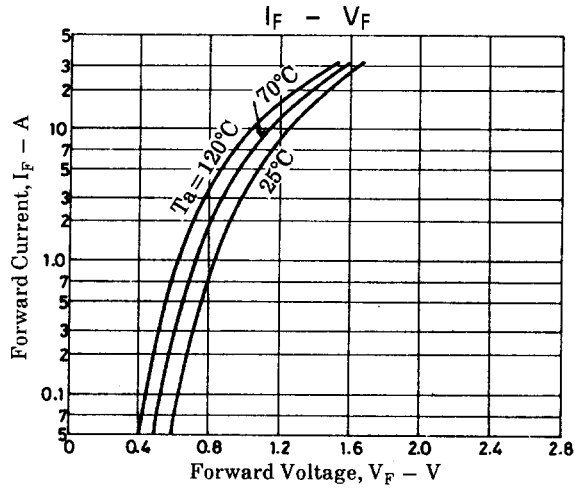
Absolute Maximum Ratings at $T_a = 25^\circ C$

| Parameter | Symbol | Conditions | Ratings | Unit |
|-------------------------------------|-----------|---------------------------------------|-------------|------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | 1500 | V |
| Non-repetitive Peak Reverse Voltage | V_{RSM} | | 1500 | V |
| Average Output Current | I_O | | 8 | A |
| Peak Output Current | I_{op} | $PW \leq 100\mu s$, $duty \leq 50\%$ | 32 | A |
| Surge Forward Current | I_{FSM} | Sine wave, 10ms | 80 | A |
| Junction Temperature | T_J | | 150 | $^\circ C$ |
| Storage Temperature | T_{stg} | | -55 to +150 | $^\circ C$ |

Electrical Characteristics at $T_a = 25^\circ C$

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|-----------------------|-------------|-------------------------------|---------|-----|-----|--------------|
| | | | min | typ | max | |
| Reverse Voltage | V_R | $I_R = 1mA$ | 1500 | | | V |
| Forward Voltage | V_F | $I_F = 8A$ | | | 1.8 | V |
| Reverse Current | I_R | $V_R = 1000V$ | | | 200 | μA |
| Reverse Recovery Time | t_{rr} | $I_F = 100mA$, $I_R = 100mA$ | | | 1.5 | μs |
| Forward Recovery Time | t_{fr} | $I_F = 100mA$ | | 0.1 | 0.2 | μs |
| Junction Capacitance | C_j | $V_R = 10V$, $f = 100kHz$ | | 90 | | pF |
| Thermal Resistance | R_{thj-c} | Junction-Case | | | 2.0 | $^\circ C/W$ |

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