YJD106510DQG2

Silicon Carbide Schottky Diode

Features

Positive temperature coefficient
Temperature-independent switching
Maximum working temperature at 175 °C
Unipolar devices and zero reverse recovery current
Zero forward recovery current
Essentially no switching losses
Reduction of heat sink requirements
High-frequency operation
Reduction of EMI

Typical Applications

Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, electric car and charger.

Mechanical Data

Package: TO-252

Molding compound meets UL 94 V-0 flammability

rating, RoHS-compliant, halogen-free

Terminals: Tin plated leads **Polarity**: As marked

Maximum Ratings (T_c =25 $^{\circ}$ C Unless otherwise specified)

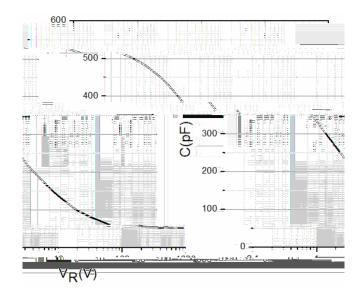
| | | | , |
|---|--------------|------|-------------|
| PARAMTETER | SYMBOL | UNIT | VALUE |
| Device marking code | | | D106510DQG2 |
| Reverse voltage (repetitive peak) @ T≔25°C | V .1. | - |) |



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Electrical Characteristics





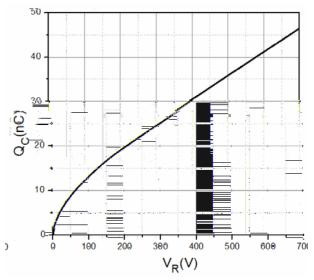
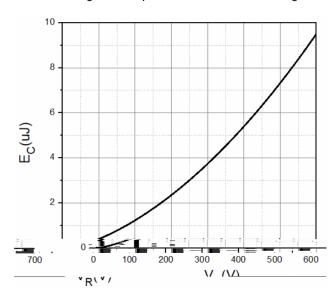


Figure 3. Capacitance vs. Reverse Voltage

Figure 4. Total Capacitance Charge vs. Reverse Voltage



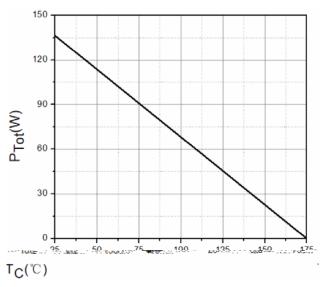
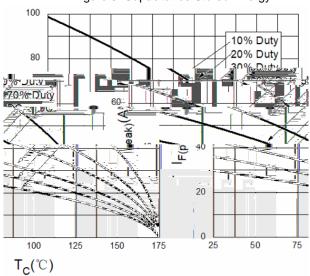


Figure 5. Capacitance Stored Energy

Figure 6. Power Derating



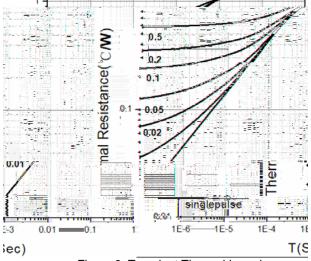


Figure 7. Current Derating

Figure 8. Transient Thermal Impedance







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