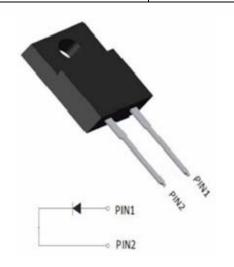


YJD112010FQG2



Silicon Carbide Schottky Diode

| V_{RRM} | 1200V |
|---------------------|-------|
| l _{F 94°C} | 10A |
| Q_c | 53nC |



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: ITO-220

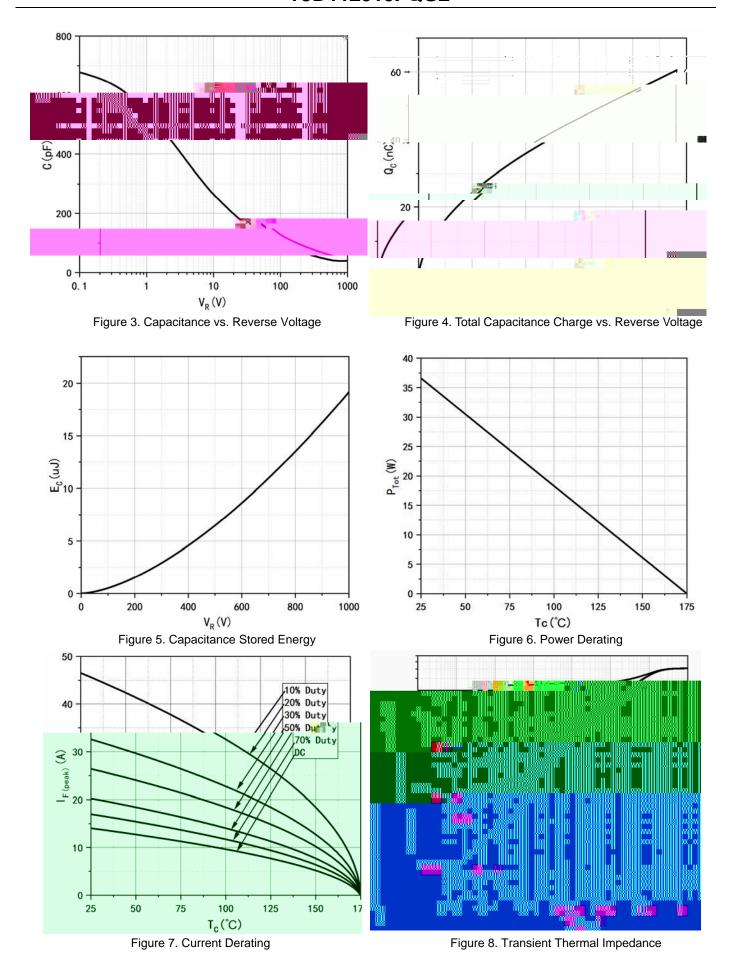
Terminals: Tin plated leads **Polarity**: As marked

Maximum Ratings (T_c=25 Unless otherwise specified

| Maximum Ratings (1 _C =25 Unless otherwise specified | | | |
|---|---------------------|------------------|-------------|
| PARAMTETER | SYMBOL | UNIT | VALUE |
| Device marking code | | | D112010FQG2 |
| Reverse voltage (repetitive peak) @ T _j =25°C | V_{RRM} | V | 1200 |
| Reverse voltage (Surge Peak) @ T _j =25°C | V_{RSM} | V | 1200 |
| Reverse voltage (DC) @ T _j =25°C | V_{DC} | V | 1200 |
| Continuous forward current @ T _c =25°C | I _F | A | 14 |
| Continuous forward current @ T _c =94°C | | | 10 |
| Continuous forward current @ T _c =135°C | | | 6.8 |
| Non-repetitive peak forward surge current @ T _c =25°C, tp=10ms, Half Sine Wave | I _{FSM} | А | 85 |
| Power Dissipation@ T _c =25°C | Р _{тот} | W | 36 |
| Power Dissipation@ T _c =110°C | | | 15 |
| i²t Value@ Tc=25°C ,tp=10ms | i ² dt | A ² S | 36 |
| Operating junction and Storage temperature range | T_{j} , T_{stg} | °C | -55 to +175 |



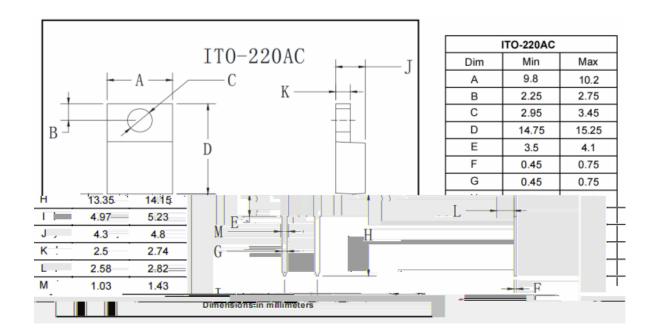








Outline Dimensions





YJD112010FQG2

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