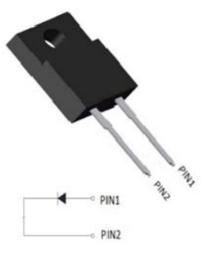


Silicon Carbide Schottky Diode

V _{RRM}	1200V
I _{F 94°} C	10A
Qc	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

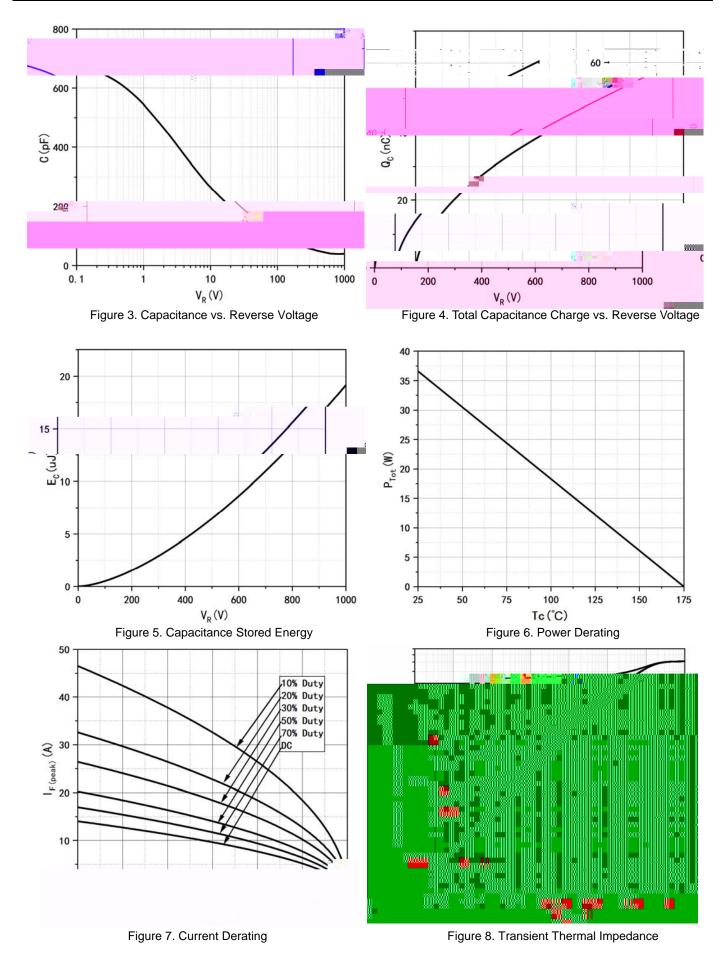
Package: ITO-220 Terminals: Tin plated leads Polarity: As marked

Maximum Ratings (T_c=25 Unless otherwise specified

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	IF	A	14
Continuous forward current @ $T_c=94^{\circ}C$			10
Continuous forward current @ T _c =135°C			6.8
Non-repetitive peak forward surge current @ $T_c=25^{\circ}C$, tp=10ms, Half Sine Wave	I _{FSM}	А	85
Power Dissipation @ T _c =25°C	P _{TOT}	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

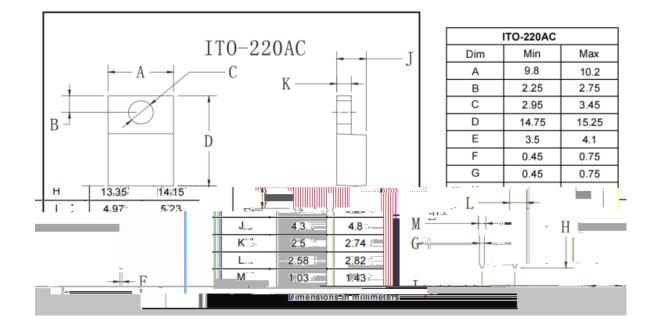
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YJD112010FQG2





Outline Dimensions





YJD112010FQG2

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