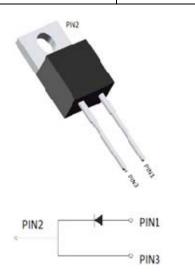


YJD112010PQG2



Silicon Carbide Schottky Diode

V_{RRM}	1200V
I _{F (135°C)}	15A
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: TO-220

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

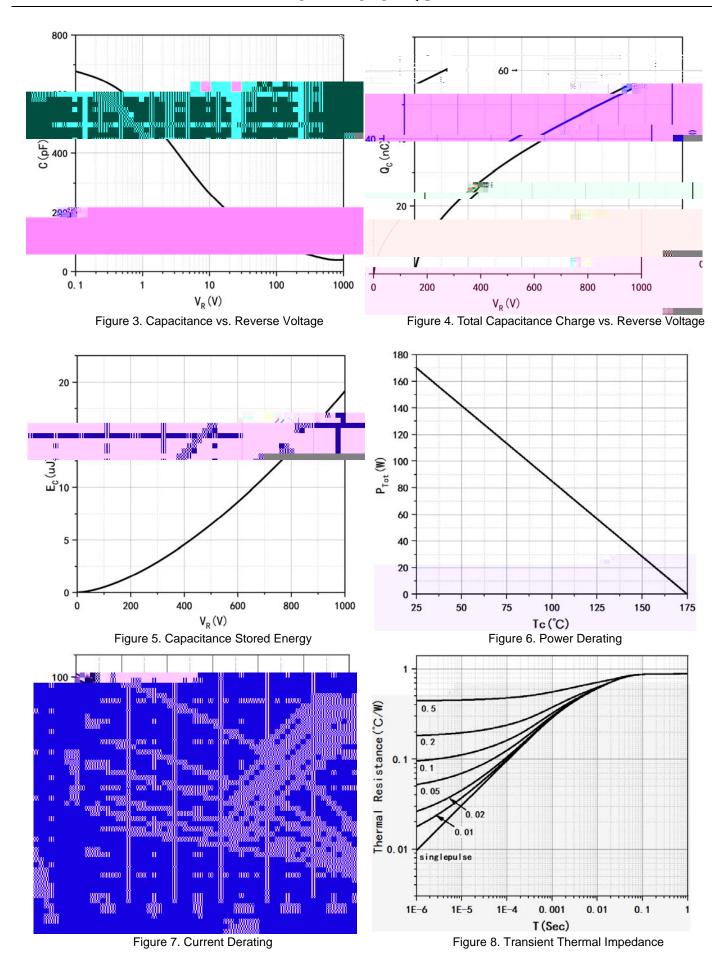
Maximum Ratings ($T_c=25^{\circ}$ C Unless otherwise specified)

PARAMTETER	SYMBOL	UNIT	VALUE
Device marking code			D112010PQG2
Reverse voltage (repetitive peak) @ T _j =25°C	V_{RRM}	٧	1200
Reverse voltage (Surge Peak) @ T _j =25°C	V_{RSM}	٧	1200
Reverse voltage (DC) @ T _j =25°C	V _{DC}	٧	1200
Continuous forward current @ T _c =25°C	I _F		31
Continuous forward current @ T _c =135°C		Α	15
Continuous forward current @ T _c =157°C			10
Non-repetitive peak forward surge current @ T _c =25°C, tp=10ms, Half Sine Wave	I _{FSM}	Α	85
Power Dissipation@ T _c =25°C	_	W	170
Power Dissipation@ T _c =110°C	P _{TOT}		73
i²t Value@ Tc=25°C ,tp=10ms	∫ i²dt	A ² S	36
Operating junction and Storage temperature range	T_{j} , T_{stg}	°C	-55 to +175





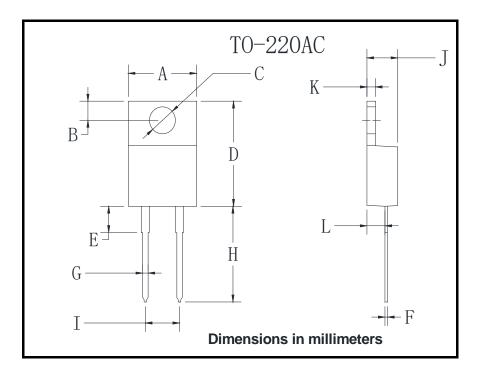








Outline Dimensions



TO-220AC				
Dim	Min	Max		
Α	9.95	10.35		
В	2.55	2.95		
С	3.75	4.05		
D	14.95	15.25		
E	3.75	4.25		
F	0.26	0.5		
G	0.68	0.94		
Н	13.3	13.9		
I	4.86	5.26		
J	4.38	4.78		
K	1.14	1.4		
L	2.37	2.79		



YJD112010PQG2

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