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-220AC
- **Terminals**: Tin plated leads
- **Polarity**: As marked

■Maximum Ratings (T_C=25

			VALUE
Device marking code			D112020PGG2
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	61
Continuous forward current @ T_c=135°C			28
Continuous forward current @ T_c=150°C			20
Non-repetitive peak forward surge current @ T_c=25°C, tp=10ms, Half Sine Wave	I_{FSM}	A	160
Power Dissipation@ T_c=25°C	P_{TOT}	W	241
Power Dissipation@ T_c=110°C			104
i^2t Value@ Tc=25°C ,tp=10ms	$\int i^2dt$	A^2S	128
Operating junction and Storage temperature range	T_j ,T		

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7RWDO FDSDFLWDQFH			95 9 I 0+=		
			95 & 9 I S0+=		
			95 9 I 0+=		
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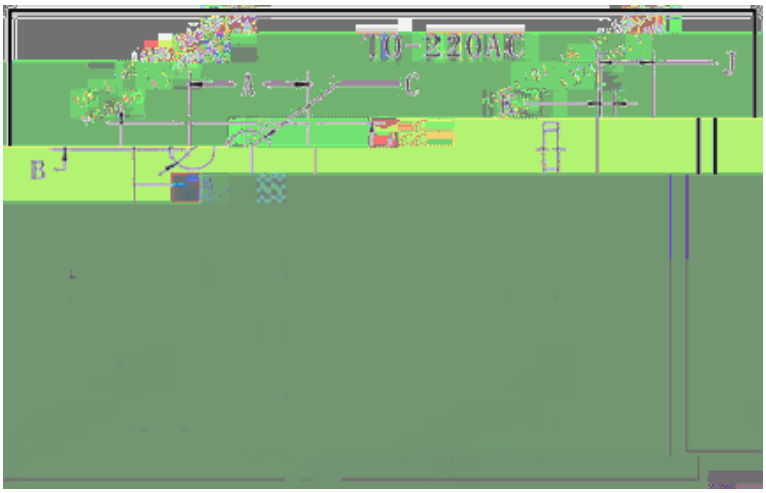
■Outline Dimensions



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

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