Silicon Carbide Schottky Diode

V_{RRM}	1200V
$I_{F\ (135°C)}$	10A
Q_C	37nC

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
- AEC-Q101 qualified
- 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
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals**: Tin plated leads
- **Polarity**: As marked

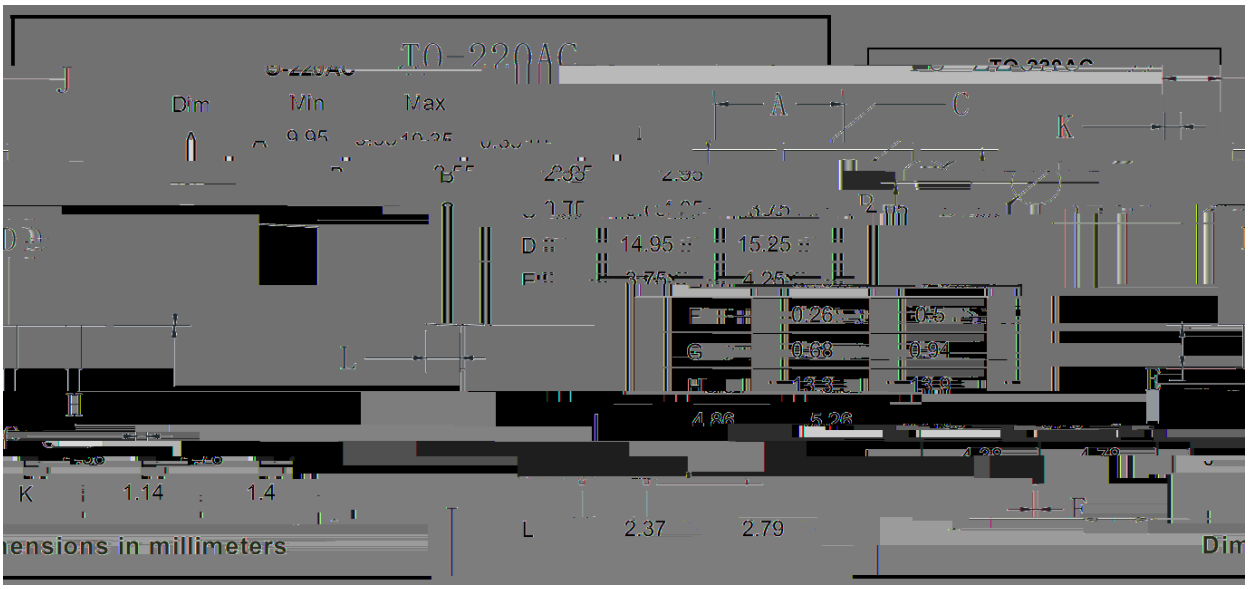
■Maximum Ratings (T_C=25 Unless otherwise specified

PARAMTETER	SYMBOL	UNIT	VALUE
Device marking code			D112008PQG3
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	22
Continuous forward current @ T_C=135°C			10
Continuous forward current @ T_C=148°C			8
Non-repetitive peak for Ğ ╝ ґ Ğ ╗ @e Î ů M ƪ MQ I ' ̃Ω = A ̃ ̂ ̀ O CM Î ̆ A ̈ ! ̃ C			
Power Dissipation@ T_C=110°C			41
i^2t Value@ T_C=25°C ,tp=10ms	∫ i^2dt	A^2Ĥ ³ '	

)LJXUH &DSDFLWDQFH 9RO5HY)LJXUH 7RWDO &DSDFLWDQFH &KDUJ

)LJXUH &DSDFLWDQFH 6WRUHG (Q•0

■Outline Dimensions



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