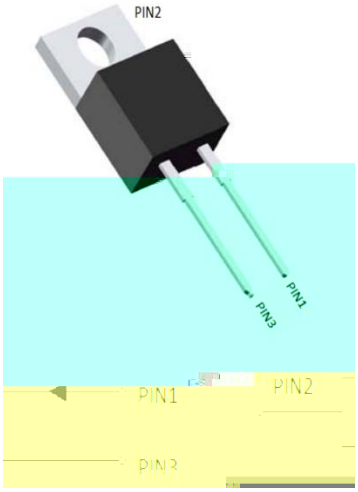
RoHS
COMPLIANT

V_{RRM}	650V
$I_{F\ 135°C}$	3.6A
Q_C	5.2nC



- Positive temperature coefficient
- Temperature-independent switching
- Maximum working temperature at 175 °C
- Unipolar devices and zero reverse recovery current
- Zero forward recovery voltage
- Essentially no switching losses
- Reduction of heat sink requirements
- AEC-Q101 qualified
- High-frequency operation
- Reduction of EMI

Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, electric car and charger.

- : TO-220AC
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- : Tin plated leads
- : As marked

■ (T_C=25 Unless otherwise specified)

Device marking code			D106502PQG3
Reverse voltage (repetitive peak) @ T_j=25°C	V_{RRM}	V	650
Reverse voltage (Surge Peak) @ T_j=25°C	V_{RSM}	V	650
Reverse voltage (DC) @ T_j=25°C	V_{DC}	V	650
Continuous forward current @ T_c=25°C	I_F	A	7.6
Continuous forward current @ T_c=135°C			3.6
Continuous forward current @ T_c=160°C			2
Non-repetitive peak forward surge current @ T_c=25°C, tp=10ms, Half Sine Wave	I_{FSM}	A	20
Power Dissipation@ T_c=25°C	P_{TOT}	W	45
Power Dissipation@ T_c=110°C			19 ƀ X4 ¾ Ĥ 1

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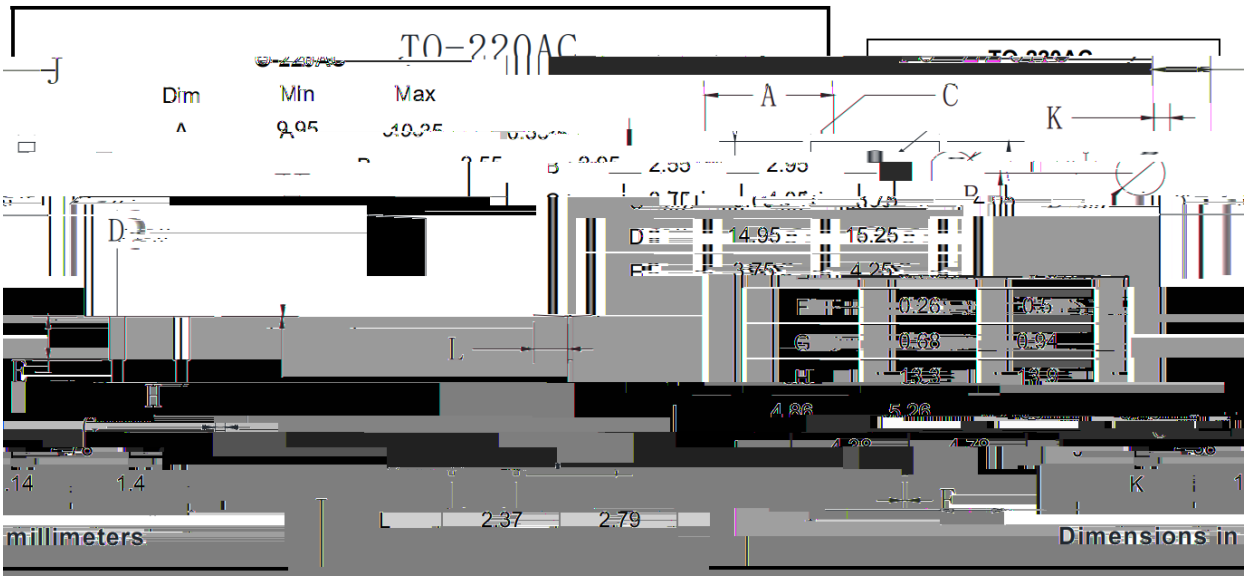
Forward voltage drop	V_F	V	I_F=2A, T_j=25°C	1.5	1.6
			I_F=2A, T_j=175°C	2.2	-
Reverse leakage current	I_R	μA	V_R=650V, T_j=25°C	0.1	10
			V_R=650V, T_j=175°C	1	-
Total capacitive charge	Q_C	nC	V_R		

■


TO-220AC
Dim
Min
Max
A
C
K
J
D
L
H
14.95
15.25
4.25
0.26
0.68
0.94
4.88
5.26
1.4
2.37
2.79
millimeters
Dimensions in