

V_{RRM}	650V
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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 Unless otherwise specified)

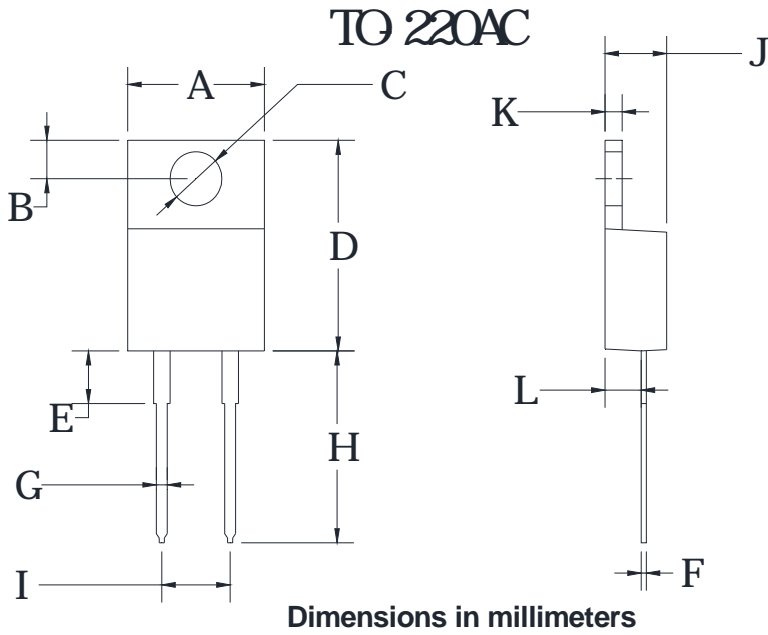
PARAMETER	SYMBOL	UNIT	VALUE
Device marking code			D106504PQG3
Reverse voltage (Repetitive peak) @ T _j =25°C	V _{RRM}	V	650
Reverse voltage (Surge peak) @ T _j =25°C	V _{RSM}	V	650
Reverse voltage (DC) @ T _j =25°C	V _{DC}	V	650
Continuous forward current @ T _C =25°C	I _F	A	12
Continuous forward current @ T _C =135°C			5.8
Continuous forward current @ T _C =154°C			4
Non-repetitive peak forward surge current @ T _C =25°C, tp=10ms, Half Sine Wave	I _{FSM}	A	40
Power Dissipation @ T _C =25°C	P _{TOT}	W	64
Power Dissipation @ T _C =110°C			28
i ² t Value @ T _C =25°C ,tp=10ms	i ² dt	A ² S	8
Operating junction and Storage temperature range	T _j , T _{stg}	°C	-55 to +175



Electrical Characteristics

PARAMTETER	SYMBOL	UNIT	TEST CONDITIONS	Typ.	Max.
Forward voltage drop	V_F	V	$I_F=4A, T_J=25^{\circ}C$		Y1.1.6

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



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