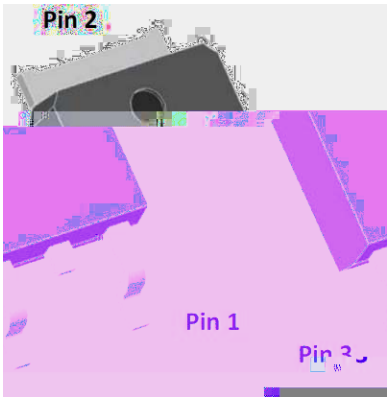
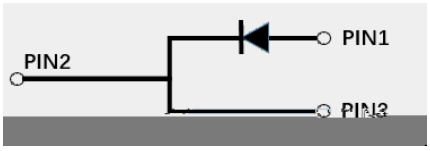
RoHS COMPLIANT

V_{RRM}	650V
$I_{F\ 135°C}$	14A
Q_C	30nC





- 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

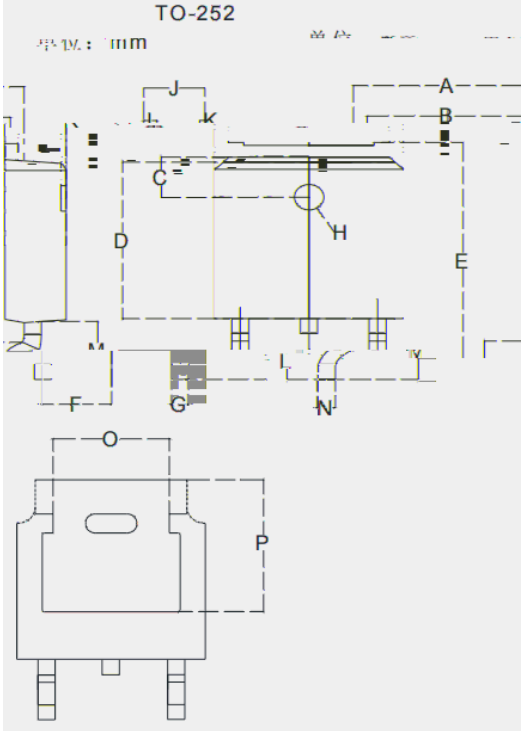
Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, automotive battery chargers.

- : TO-252
  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			D106510DQG2
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	32
Continuous forward current @ T_c=135°C			14
Continuous forward current @ T_c=154°C			10
Non-repetitive peak forward surge current @ T_c=25°C, tp=10ms, Half Sine Wave	I_{FSM}	A	70
Power Dissipation@ T_c=25°C	P_{TOT}	W	132
Power Dissipation@ T_c=110°C			57
i^2t Value@ Tc=25°C ,tp=10ms	$\int i^2dt$	A^2S	32
Operating junction and Storage temperature range	T_j , T_{stg}	°C	-55 to +175

■



TO-252		
Dim	Min	Max
A	6.500	6.700
B	5.100	5.460
C	1.400	1.800
6.200	D	6.000
10.400	E	10.000
2.366	F	2.166
0.860	G	0.660
H	Φ1.050	Φ1.350
I	0.460	0.580
J	2.200	2.400
K	0	0.300
L	0.890	2.290
M	2.700	2.900
580	N	0.430
.95	O	4.20
45	P	5.45

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