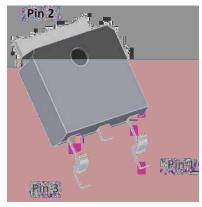


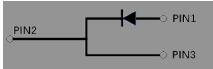




Silicon Carbide Schottky Diode

V _{RRM}	650V	
I _{F 135°C}	11A	
Q _C	25nC	





Features

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
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, automotive battery chargers.

Mechanical Data

Package: TO-252

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			D106506DQG2
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}	٧	650
Continuous forward current @ T _c =25°C			23
Continuous forward current @ T _c =135°C	I _F	Α	11
Continuous forward current @ T _c =160°C			6
Non-repetitive peak forward surge current @ Tc=25°C, tp=10ms, Half Sine Wave	I _{FSM}	А	65
Power Dissipation@ T _c =25°C	В	W	100
Power Dissipation@ T _c =110°C	P _{TOT}	VV	43
i²t Value@ Tc=25°C ,tp=10ms	i ² dt	A ² S	21
Operating junction and Storage temperature range	T_{j} , T_{stg}	°C	-55 to +175



YJD106506DQG2

Electrical Characteristics	<u> </u>			« r				
		SYMBOL	UNIT	TEST CONDITIONS	Тур.	Max.		
Forward voltage drap		\/	V	I _F =6A, T _j =25°C				
Forward voltage drop		V _F	V	I _F =6A, T _j =175°C				
Reverse leakage current	·	l _o		V _R ₽@£0 V, T _j	M			

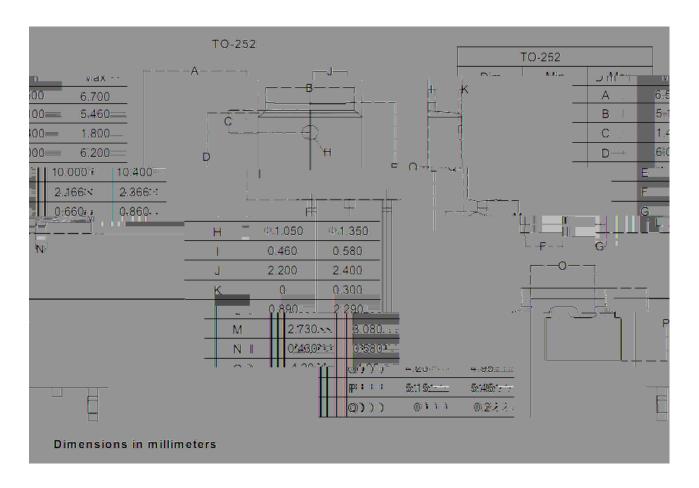






YJD106506DQG2

Outline Dimensions





YJD106506DQG2

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