

YJD106520NQG2



Silicon Carbide Schottky Diode

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
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



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Electrical Characteristics (Per Leg)

PARAMTETER SYMBOL UNIT TEST CONDITIONS Typ. Max.	Electrical Characteristics (i ci ecg)						
	PARAMTETER	SYMBOL	UNIT	TEST CONDITIONS	Тур.	Max.	

I_F=20A, T_j=25°C

1.35

Forward voltage drop



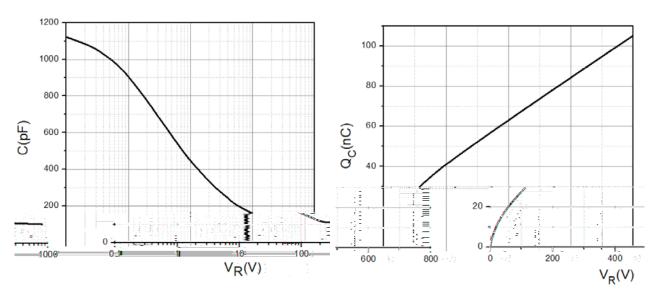


Figure 3. Capacitance vs. Reverse Voltage

Figure 4. Total Capacitance Charge vs. Reverse Voltage

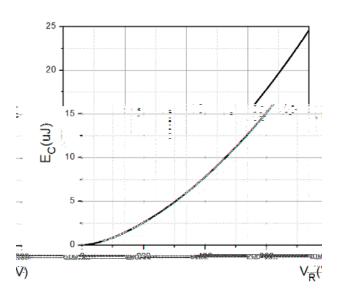


Figure 5. Capacitance Stored Energy

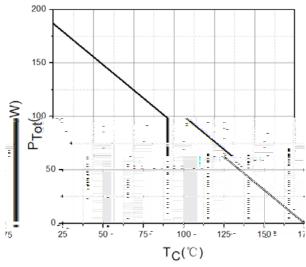


Figure 6. Power Derating

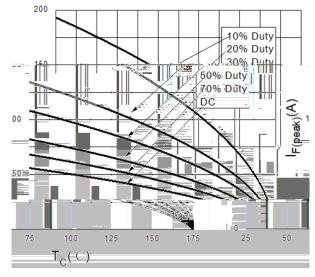


Figure 7. Current Derating

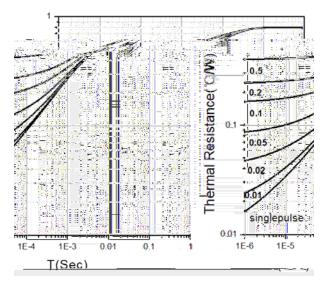


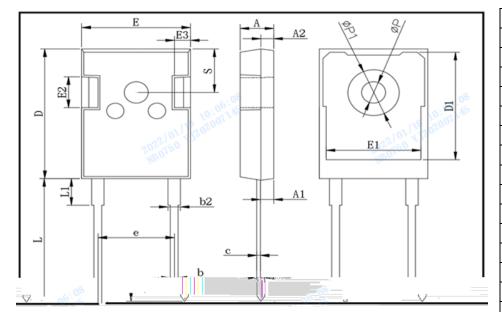
Figure 8. Transient Thermal Impedance







Outline Dimensions



TO-247AC						
Dim	Min	Max				
Α	4.80	5.20				
A1	2.21	2.61				
A2	1.85	2.15				
b	1.11	1.36				
b2	1.91	2.21				
С	0.51	0.75				
D	20.70	21.30				
D1	16.25	16.85				
Е	15.50	16.10				
E1	13.00	13.60				
E2	4.80	5.20				
E3	2.30	2.70				
е	10.88BSC					
L	19.62	20.22				
L1	-	4.30				
Р	3.40	3.80				
P1	-	7.30				
S	6.15BSC					



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