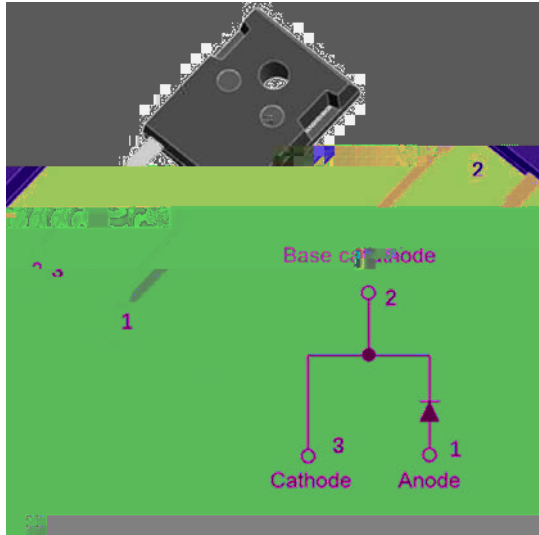


Silicon Carbide Schottky Diode

V_{RRM}	650V
I_F 135°C	26A
Q_C	62nC



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

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Mechanical Data

- Package: TO-247AC
- Molding compound meets UL 94 V-0 flammability

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PARAMETER	SYMBOL	UNIT	VALUE
Device marking code			D106520NQG2
Reverse voltage (repetitive peak) @ $T_j=25^\circ\text{C}$	V_{RRM}	V	650
Reverse voltage (Surge Peak) @ $T_j=25^\circ\text{C}$	V_{RSM}	V	650
Reverse voltage (DC) @ $T_j=25^\circ\text{C}$	V_{DC}	V	650
Continuous forward current @ $T_c=25^\circ\text{C}$	I_F	A	56
Continuous forward current @ $T_c=135^\circ\text{C}$			26
Continuous forward current @ $T_c=148^\circ\text{C}$			20
Non-repetitive peak forward surge current @ $T_c=25^\circ\text{C}$, $t_p=10\text{ms}$, Half Sine			
		W	187
Power Dissipation @ $T_c=110^\circ\text{C}$			81
i^2t Value @ $T_c=25^\circ\text{C}$, $t_p=10\text{ms}$	i^2t	A ² S	128
Operating junction and Storage temperature range	T_j, T_{stg}	°C	-55 to +175



Electrical Characteristics (Per Leg)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Typ.	Max.
Forward voltage drop	V_F	V	$I_F=20A, T$		

YJD106520NQG2



Outline Dimensions

TO-247AC



Disclaimer

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