

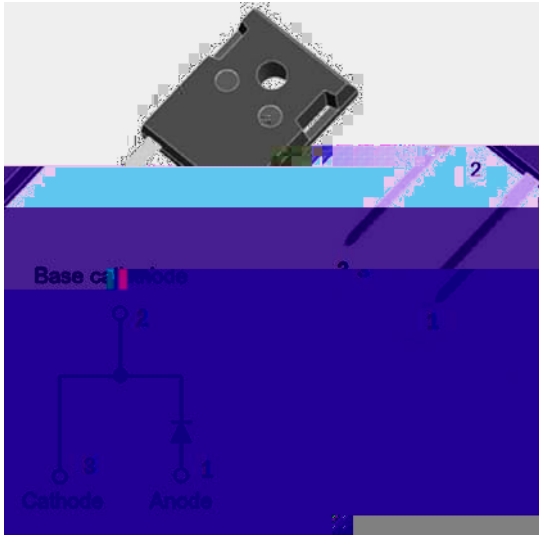


### Silicon Carbide Schottky Diode

$V_{RRM}$	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 flammabilit á

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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 $\tilde{Z}$ M ceo $\tilde{N}$			
		W	187
Power Dissipation @ $T_c=110^\circ\text{C}$			81
$i^2t$ Value @ $T_c=25^\circ\text{C}$ , $t_p=10\text{ms}$	$i^2t$	$\text{A}^2\text{S}$	128
Operating junction and Storage temperature range	$T_j, T_{stg}$	$^\circ\text{C}$	-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**

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Outline Dimensions

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TO-247AC



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