



## 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:** TO-247AB  
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)

PARAMETER	SYMBOL	UNIT	VALUE
Device marking code			D112040NCTQG3
Reverse voltage (Repetitive peak) @ $T_j=25^{\circ}\text{C}$	$V_{RRM}$	V	1200
Reverse voltage (Surge peak) @ $T_j=25^{\circ}\text{C}$	$V_{RSM}$	V	1200
Reverse voltage (DC) @ $T_j=25^{\circ}\text{C}$	$V_{DC}$	V	1200



Electrical Characteristics (Per Leg)

PARAMTETER	SYMBOL
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YJD112040NCTQG3

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12040NCTQG3

RoHS  
ANT

Outline Dimen

Dim

Min

Max

