



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°C	V _{RRM}	V	1200
Reverse voltage (Surge peak) @ T _J =25°C	V _{RSM}	V	1200
Reverse voltage (DC) @ T _J =25°C	V _{DC}	V	1200



■Electrical Characteristics (Per Leg)

PARAMTETER	SYMBOL
------------	--------



12040NCTQG3

RoHS
COMPLIANT

■Outline Dimension

Dim

Min

Max

