

## Product Overview

### NGTB03N60R2DT4G: IGBT, 600 V, 4.5 A, N-Channel

For complete documentation, see the data sheet.

NGTB03N60R2DT4G is an IGBT, 600 V, 4.5 A, N-Channel.

#### Features

- 5  $\mu$ s Short Circuit Capability
- Low Saturation Voltage :  $V_{CE(sat)} = 1.7$  V (typ) [IC = 3 A,  $V_{GE} = 15$  V]  
High Speed Switching :  $t_f = 75$  ns (typ)
- High Power Dissipation/ $T_{jmax} = 175^\circ\text{C}$
- Reverse Conducting II IGBT
- Diode  $V_F = 1.5$  V (typ) [IF = 3 A]
- Diode  $t_{rr} = 65$  ns (typ)

#### Benefits

- Safety Design
- High Efficiency
- High Reliability

#### Applications

- General Purpose Inverter and Motor

#### End Products

- Refrigerator
- Water Pump
- Dehumidifier
- Clothes Washer

### Part Electrical Specifications

Product	Compliance	Status	$V_{(BR)C}$ $V_{ES}$ Typ (V)	$I_C$ Max (A)	$V_{GE(sat)}$ Typ (V)	$V_F$ Typ (V)	$E_{off}$ Typ (mJ)	$E_{on}$ Typ (mJ)	$T_{rr}$ Typ (ns)	$I_{rr}$ Typ (A)	Gate Charge Typ (nC)	Short Circuit With stand ( $\mu$ s)	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Pack age Type
NGTB03N60R2DT4G	Pb-free Halide free	Active	600	4.5	1.7	1.5	0.027	0.05	65	-	17	5	-	49	Yes	DPA K-3

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 2/15/2019