

## GR-15E003UG: E-mode GaN Power Transistor

### Description

GR-15E003UG is an enhancement mode GaN on Silicon power transistor. GR-15E003UG provides, high current and high operating speed which is suitable for DC to DC power supply applications.

### Key Specifications

|                                         |             |
|-----------------------------------------|-------------|
| Part Number                             | GR-15E003UG |
| $V_{DS, min.}$                          | 150V        |
| $I_{DS, Pulse}$ (25°C, TPULSE = 300 μs) | 263A        |
| $R_{DS(ON), typ. @Vgs=5V}$              | 3.1mΩ       |
| $Q_G, typ.$                             | 13.2nC      |

### Features

- 100 V enhancement mode power transistor
- High operating frequency
- $R_{DS(on)} = Typ. 3.1m\Omega$
- Dual-side cooled package
- HS compliant

### Applications

- Switch Mode Power Supplies (SMPS)
- DC-DC Converters
- Fast Battery Charging
- Appliance Motor Drives

