

| | |
|---------------------|--------------|
| V_{DSS} | 150V |
| $R_{DS(on)}$ (Typ.) | 40m Ω |
| Q_g (Typ.) | 2.0nC |
| I_D^{*1} | 10A |

●Features

- 1) E-mode
- 2) Reliable and easy to use with DFN package
- 3) High gate voltage maximum rating 8V
- 4) Very high switching frequency

●Application

- Half Bridge topologies
- Synchronous Buck or Boost
- AC/DC Converters (secondary side)
- class D Audio amplifiers
- IR LED, LD driver

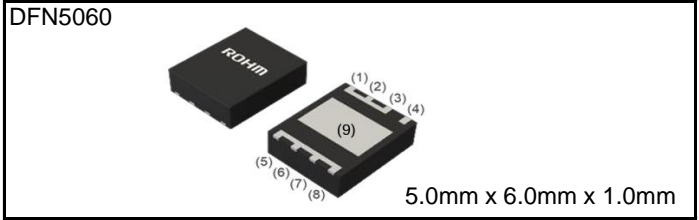
●Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|------------------------------|--------------------|-------------|------------------|
| Drain - Source Voltage | V_{DSS} | 150 | V |
| Continuous Drain current | I_D^{*1} | 10 | A |
| Pulsed Drain current | $I_{D,pulse}^{*2}$ | 50 | A |
| Gate - Source voltage (DC) | V_{GSS} | -2 to +8 | V |
| Recommended drive voltage | V_{GS_op} | 0 / +5 | V |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Range of storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

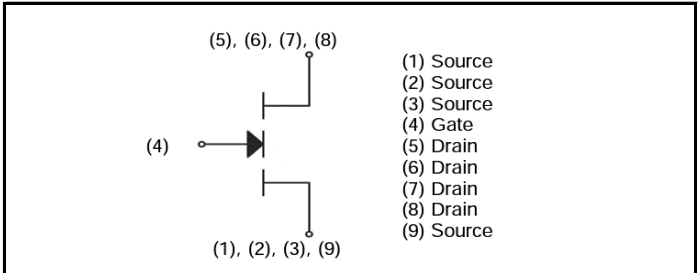
*1 Limited by maximum temperature allowed.

*2 $PW \leq 1\mu\text{s}$

●Outline



●Inner circuit



●Packaging specifications

| Type | Packing | Tape on reel |
|------|---------------------------|--------------|
| | Reel size (mm) | 330 |
| | Tape width (mm) | 12 |
| | Basic ordering unit (pcs) | 2500 |
| | Taping code | TB |
| | Marking | GNE1040TB |

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