

MTM761110LBF

MOS FET MTM761110LBF

Silicon P-channel MOSFET

For Switching

Features

- Low Drain-source On-state Resistance : RDS(on) typ. = 26 m Ω (VGS = -4.5 V)
- Low Drive Voltage : 1.8 V Drive
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL : Level 1 compliant)
- Marking Symbol : GS

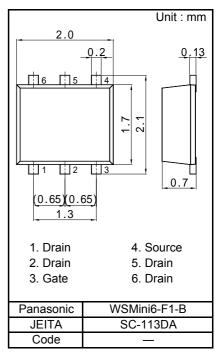
Packaging

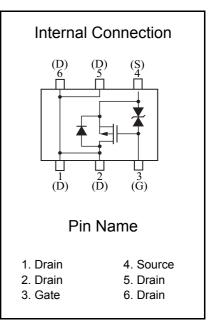
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

| Absolute Maximum Ratings Ta = 25 ° | С | | | |
|---------------------------------------|--------|-------------|------|--|
| Parameter | Symbol | Rating | Unit | |
| Drain to Source Voltage | VDS | -12 | V | |
| Gate to Source Voltage | VGS | ±8 | V | |
| Drain Current | ID | -4.0 | А | |
| Drain Current (Pulsed) | IDp | -20 | А | |
| Total Power Dissipation ^{*1} | PD | 700 | mW | |
| Channel Temperature | Tch | 150 | °C | |
| Operating ambient temperature | Topr | -40 to +85 | °C | |
| Storage Temperature Range | Tstg | -55 to +150 | °C | |

Note: *1 Measuring on ceramic board at 40 mm \times 38 mm \times 0.2 mm.

Absolute maximum rating PD Non-heat sink shall be made 150 mW.





Panasonic

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■ Electrical Characteristics Ta = 25 °C ± 3 °C

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|----------|---|------|-------|------|------|
| Drain-source surrender voltage | VDSS | ID = -1 mA, VGS = 0 | -12 | | | V |
| Drain-source cutoff current | IDSS | VDS = -10 V, VGS = 0 | | | -0.1 | μA |
| Gate-source cutoff current | IGSS | VGS = ±8 V, VDS = 0 | | | ±10 | μA |
| Gate threshold voltage | Vth | ID = -1.0 mA, VDS = -6.0 V | -0.3 | -0.65 | -1.0 | V |
| Drain-source ON resistance | RDS(ON)1 | ID = -1.0 A, VGS = -4.5 V | | 26 | 34 | mΩ |
| | RDS(ON)2 | ID = -0.5 A, VGS = -2.5 V | | 30 | 41 | |
| | RDS(ON)3 | ID = -0.5 A, VGS = -1.8 V | | 36 | 54 | |
| Forward transfer admittance | Yfs | ID = -1.0 A, VDS = -10 V | 4.0 | | | S |
| Short-circuit input capacitance (Common source) | Ciss | | | 1400 | | pF |
| Short-circuit output capacitance (Common source) | Coss | VDS = -10 V, VGS = 0, f = 1 MHz | | 135 | | |
| Reverse transfer capacitance (Common source) | Crss | | | 150 | | I |
| Turn-on delay time ^{*1} | td(on) | VDD = -6 V, VGS = 0 to -4 V | | 9 | | 20 |
| Rise time ^{*1} | tr | ID = -1.0 A | | 11 | | ns |
| Turn-off delay time ^{*1} | td(off) | VDD = -6 V, VGS = -4 to 0 V 270 ID = -1.0 A 160 | | | | |
| Fall time ^{*1} | tf | | | 160 | | ns |

Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors. Note :

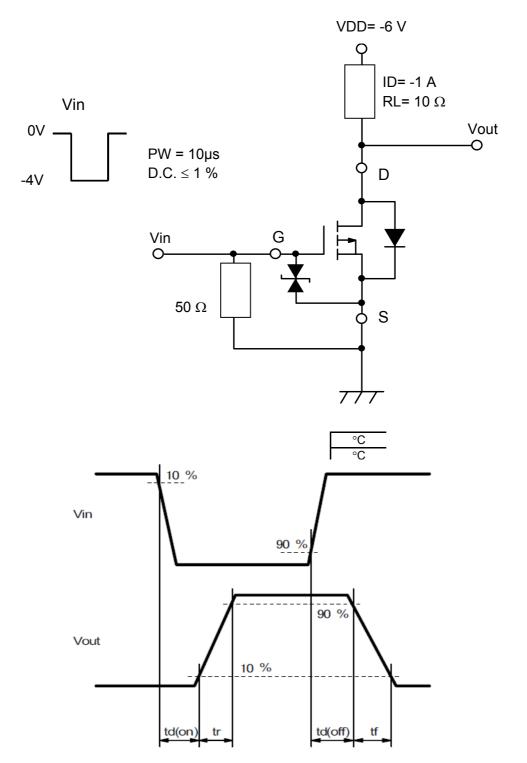
*1 Measurement circuit for Turn-on Delay Time / Turn-off Delay Time

Doc No. TT4-EA-10433 Revision. 2

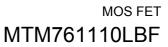


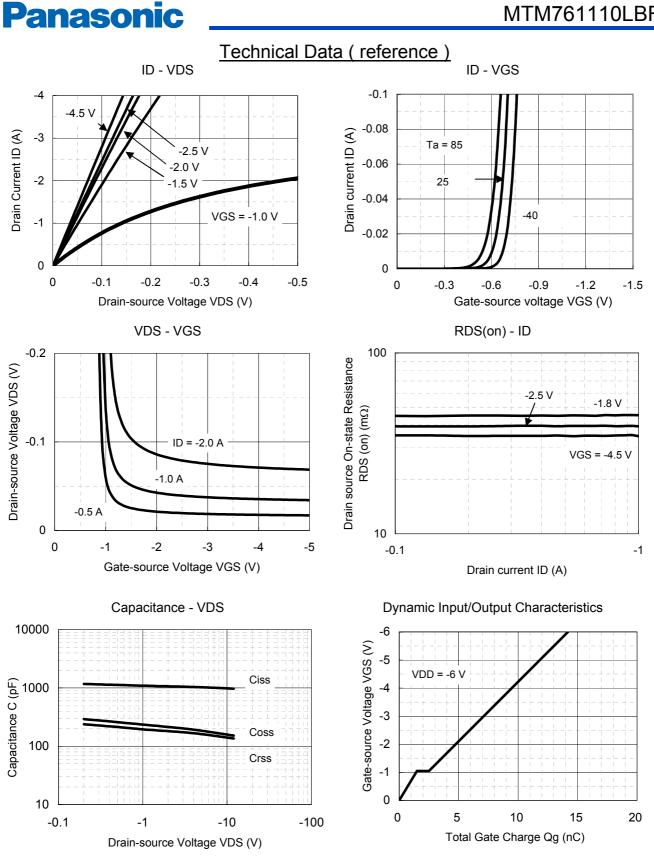
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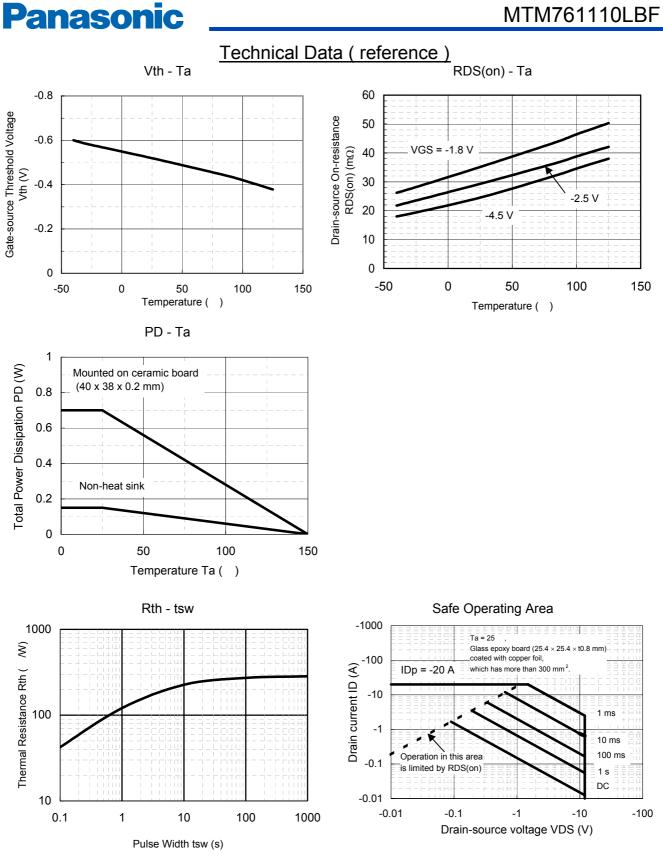
Established : 2008-02-01 Revised : 2013-10-18





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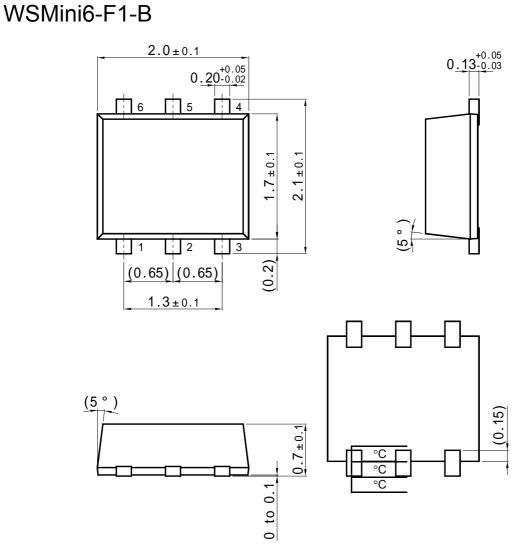
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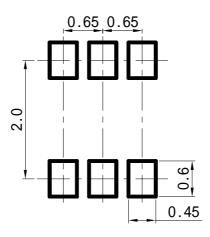


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Unit : mm



■ Land Pattern (Reference) (Unit : mm)



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