查询TIM1213-5供应商

TOSHIBA *microwave semiconductor* TECHNICAL DATA

FEATURES

HIGH POWERT

P1dB=37.0dBm at 12.7GHz to 13.2GHz

HIGH GAIN

dzsc.com

G1dB=7.0dB at 12.7GHz to 13.2GHz

捷多邦,专业PCB打样工厂,24小时加急出货

MICROWAVE POWER GaAs FET TIM1213-5 PRELIMINARY

BROAD BAND INTERNALLY MATCHED

HERMETICALLY SEALED PACKAGE

RF PERFORMANCE SPECIFICATIONS (Ta= 25°C)

| CHARACTERISTICS | SYMBOL | CONDITION | UNIT | MIN. | TYP. | MAX. |
|--------------------------|--------|----------------------|------|----------------|------|-------|
| Output Power at 1dB | P1dB | | dBm | 37.0 | 37.5 | |
| Compression Point | | | | | - F | 5 123 |
| Power Gain at 1dB | G1dB | VDS= 9V | dB | 6.0 | 7.0 | COM |
| Compression Point | | f= 12.7 to 13.2GHz | | Same W | .075 | |
| Drain Current | IDS1 | 60.14 | А | ala <u>ser</u> | 2.0 | 2.5 |
| Power Added Efficiency | ηadd | | % | | 25 | |
| Channel Temperature Rise | ΔTch | VDS X IDS X Rth(c-c) | °C | | — | 80 |
| the second | 0250.0 | | | | | |
| | | | | | | |

ELECTRICAL CHARACTERISTICS $(Ta = 25^{\circ}C)$

| CHARACTERISTICS | SYMBOL | CONDITION | UNIT | MIN. | TYP. | MAX. |
|-------------------------|----------|----------------------|------|------|------|------|
| Transconductance | gm | VDS= <mark>3V</mark> | mS | 10 | 1400 | — |
| | | IDS= 2.4A | | | | |
| Pinch-off Voltage | VGSoff | VDS= 3V | V | -2.0 | -3.5 | -5.0 |
| THE THE | nZSC.V | IDS= 72mA | | | | |
| Saturated Drain Current | IDSS | VDS= 3V | Α | _ | 5.0 | 5.7 |
| | | VGS= 0V | | | | |
| Gate-Source Breakdown | Vgso | IGS= -72μA | V | -5 | 1 | |
| Voltage | | | | 27 | P S | COM |
| Thermal Resistance | Rth(c-c) | Channel to Case | °C/W | W W | 3.0 | 3.7 |

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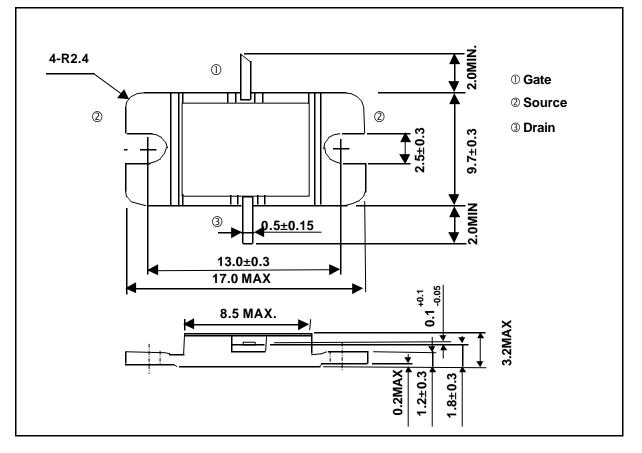
The information contained herein is subject to change without prior notice. It is therefor advisable to contact TOSHIBA <u>before</u> proceeding with design of equipment incorporating this product.

TOSHIBA CORPORATION

ABSOLUTE MAXIMUM RATINGS ($Ta = 25^{\circ}C$)

| CHARACTERISTICS | SYMBOL | UNIT | RATING |
|-------------------------------------|--------|------|-------------|
| Drain-Source Voltage | VDS | V | 15 |
| Gate-Source Voltage | VGS | V | -5 |
| Drain Current | IDS | А | 5.7 |
| Total Power Dissipation (Tc= 25 °C) | PT | W | 30 |
| Channel Temperature | Tch | °C | 175 |
| Storage Temperature | Tstg | °C | -65 to +175 |

PACKAGE OUTLINE (2-9D1B)



HANDLING PRECAUTIONS FOR PACKAGED TYPE

Soldering iron should be grounded and the operating time should not exceed 10 seconds at 260°C.