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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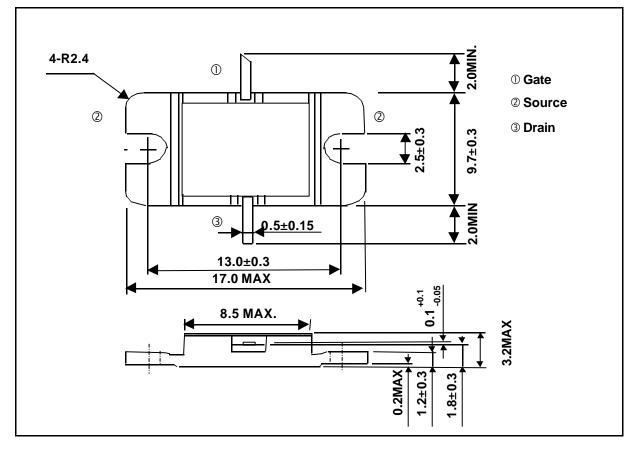
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TOSHIBA CORPORATION

# 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.