捷多邦,专业PCB打样工厂,24小时加急出货

TOSHIBA

MICROWAVE SEMICONDUCTOR TECHNICAL DATA

MICROWAVE POWER GaAs FET TIM8596-15 PRELIMINARY

FEATURES

- **HIGH POWER**
 - P1dB=42.0dBm at 8.5GHz to 9.6GHz
- **HIGH GAIN**

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G1dB=7.0dB at 8.5GHz to 9.6GHz

- **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	41.0	42.0	_
Compression Point						157
Power Gain at 1dB	G1dB	VDS=9V	dB	6.0	7.0	25.7
Compression Point		f = 8.5 – 9.6GHz		87	0750	, Go
Drain Current	IDS	an 43	Α	W W	4.5	5.5
Power Added Efficiency	ηadd		%	_	31	_
Channel Temperature Rise	ΔTch	VDS×IDS×Rth(c-c)	°C	_		100
THE PERSON	DZSG.					

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTICS	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Transconductance	gm	VDS= 2V	mS	THE W	3000	
)	IDS= 4.8A	1	40		
Pinch-off Voltage	VGSoff	VDS=2V	V	-1.5	-3.0	-4.5
111	7779	IDS= 145mA				
Saturated Drain Current	IDSS	VDS=3V	Α	_	10.0	11.5
THE ISE WAY		VGS= 0V				
Gate-Source Breakdown	VGSO	IGS= -145μA	V	-5	_	-
Voltage					-547	
Thermal Resistance	Rth(c-c)	Channel to Case	°C/W		2.0	2.5

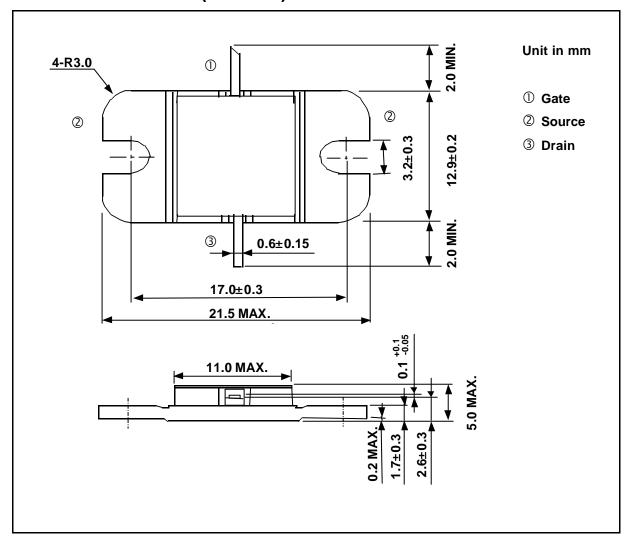
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ABSOLUTE MAXIMUM RATINGS (Ta= 25°C)

CHARACTERISTICS	SYMBOL	UNIT	RATING
Drain-Source Voltage	VDS	V	15
Gate-Source Voltage	VGS	V	-5
Drain Current	IDS	Α	11.5
Total Power Dissipation (Tc= 25 °C)	РТ	W	60
Channel Temperature	Tch	°C	175
Storage	Tstg	°C	-65 ~ + 175

PACKAGE OUTLINE (2-11C1B)



HANDLING PRECAUTIONS FOR PACKAGED TYPE

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