查询TIM1112-8供应商

## **TOSHIBA**

## MICROWAVE SEMICONDUCTOR TECHNICAL DATA

捷多邦,专业PCB打样工厂,24小时加急出货

# MICROWAVE POWER GaAs FET TIM1112-8

#### **FEATURES:**

- HIGH POWER
   P1dB = 39.5 dBm at 11.7 GHz to 12.7 GHz
- BROAD BAND INTERNALLY MATCHED
- HIGH GAIN
   G<sub>1dB</sub> = 5.0 dB at 11.7 GHz to 12.7 GHz
- HERMETICALLY SEALED PACKAGE

## RF PERFORMANCE SPECIFICATIONS $(T_a = 25^{\circ}C)$

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CHARACTERISTICS	SYMBOL	CONDITION	TINU	MIN.	TYP.	MAX.
Output Power at 1 dB Com-pression Point	P <sub>1dB</sub>	V <sub>DS</sub> = 9 V f = 11.7 -12.7 GHz	dBm	38.5	39.5	sc.co
Power Gain at 1 dB Com- pression Point	G <sub>1dB</sub>		dВ	4.0	5.0	_
Drain Current	I <sub>DS</sub>	6.60 -12.7 GHZ	A	_	3.4	4.4
Power Added Efficiency	nadd		Olo	-	20	份位
Channel-Temper- ature Rise	ΔTch	V <sub>DS</sub> ×I <sub>DS</sub> ×R <sub>th</sub> (c-c)	$^{\circ}$	ER	M W-07	80

### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTICS	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Trans- conductance	gm	$V_{DS} = 3 V$ $I_{DS} = 4.0 A$	mS	_	2400	
Pinch-off Voltage	VGSoff	$V_{DS} = 3 V$ $I_{DS} = 120 \text{ mA}$	V	-2	-3.5	<b>-</b> 5
Saturated Drain Current	I <sub>DSS</sub>	$V_{DS} = 3 V$ $V_{GS} = 0 V$	A	-41	8.0	10.4
Gate-Source Breakdown Voltage	V <sub>GSO</sub>	I <sub>GS</sub> = -120μA	V	<b>-</b> 5	-	-
Thermal Resistance	Rth (c-c)	Channel to Case	°C/W	_	1.6	2.5

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The information contained herein may be changed without prior notice. It is therefore advisable to contact TOSHIBA before proceeding with the design of equipment incorporating this product.

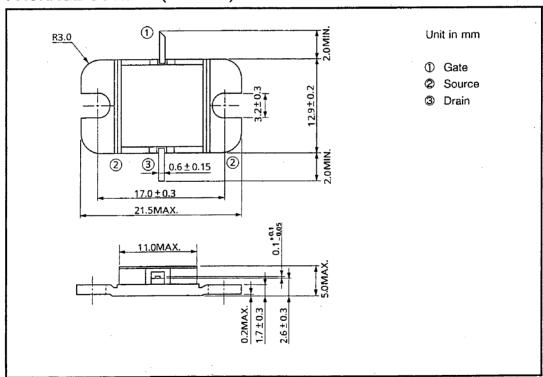
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zsc.com

## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

1200 = 0 1 = 1				
CHARACTERISTIC	SYMBOL	UNIT	RATING	
Drain-Source Voltage	v <sub>ds</sub>	V	15	
Gate-Source Voltage	V <sub>GS</sub>	v	-5	
Drain Current	I <sub>DS</sub>	A	10.4	
Total Power Dissipation (T <sub>C</sub> =25°C)	$P_{\mathbf{T}}$	W	60	
Channel Temperature	Tch	°C	175	
Storage Temperature	T <sub>stg</sub>	°C	-65~175	

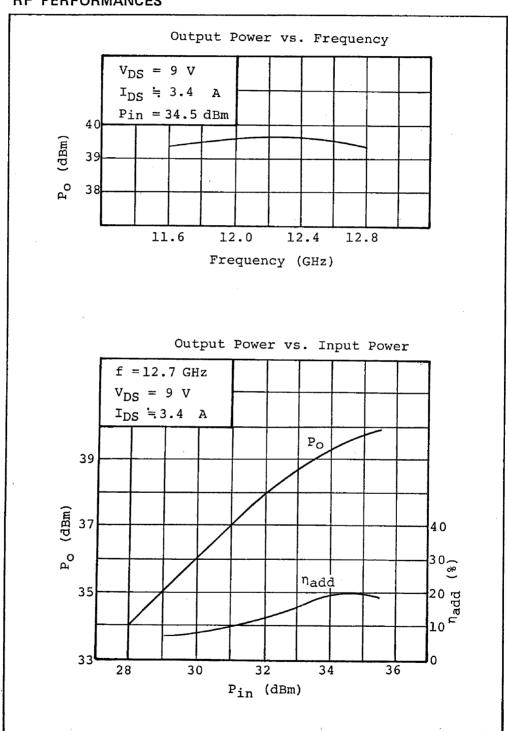
### PACKAGE OUTLINE (2-11C1B)



#### HANDLING PRECAUTIONS FOR PACKAGED TYPE

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

#### RF PERFORMANCES



## POWER DISSIPATION VS. CASE TEMPERATURE

