

TIM1414-20

1. RF PERFORMANCE SPECIFICATIONS (Ta= 25 °C)

CHARACTERISTICS	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Output Power at 1dB Compression Point	P1dB	VDS= 9V f = 14.0-14.5GHz	42.0	43.0	—	dBm
Power Gain at 1dB Compression Point	G1dB		5.0	6.0	—	dB
Drain Current	IDS		—	6.5	7.5	A
Power Added Efficiency	η_{add}		—	26	—	%

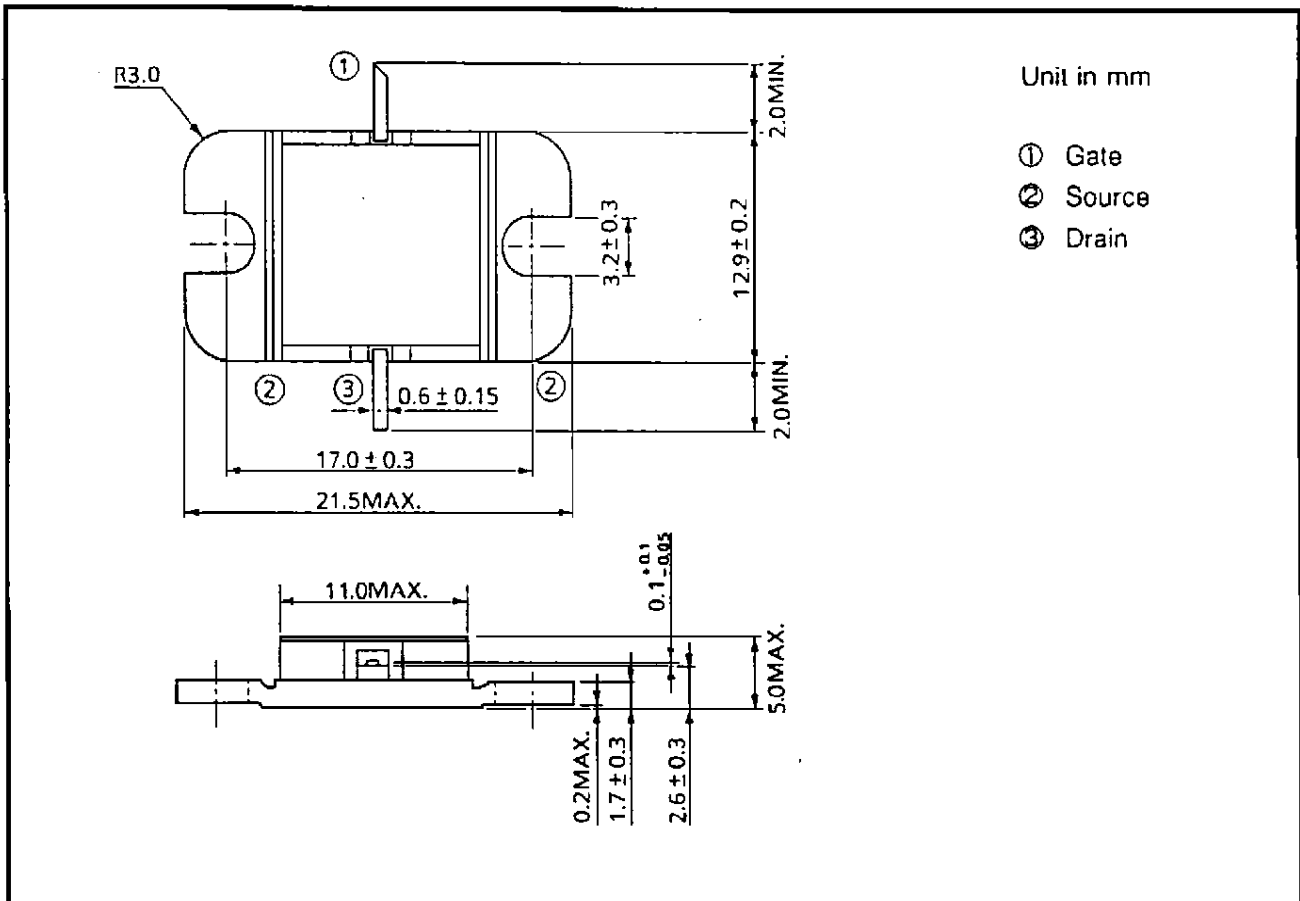
2. ELECTRICAL CHARACTERISTICS (Ta= 25 °C)

CHARACTERISTICS	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Transconductance	gm	VDS= 2V IDS= 5.5A	—	16	—	S
Pinch-off Voltage	VGSoff	VDS= 2V IDS= 50mA	-0.3	-0.7	-1.1	V
Saturated Drain Current	IDSS	VDS= 2V VGS= 0V	—	11.0	13.0	A
Gate-Source Breakdown Voltage	VGSO	IGS= -600 μ A	-5	—	—	V
Thermal Resistance	Rth(c-c)	Channel to Case	—	1.6	2.1	°C / W

The specifications contained herein is subject to change without notice.

Applications Engineering
 Microwave Solid-State Department
 TOSHIBA CORPORATION, Komukai Works

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.