## **TOSHIBA**

# MICROWAVE SEMICONDUCTOR TECHNICAL DATA

# POWER GaAs MMIC TMD0305-2

#### Features:

**■** HIGH POWER

■ BROAD BAND INTERNALLY MATCHED

PldB= 33 dBm at 3.4 to 5.1 GHz

■ HIGH GAIN

■ HERMETICALLY SEALED PACKAGE

G1dB= 22 dB at 3.4 to 5.1 GHz

#### ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTICS .	SYMBOL	UNIT	RATINGS
DRAIN SUPPLY VOLTAGE	Vdd	V	15
GATE SUPPLY VOLTAGE	VGG	V	-10
INPUT POWER	Pin	W	0. 3
FLANGE TEMPERATURE	Tf	$^{\circ}$	-30∼+80
STORAGE TEMPERATURE	Tstg	$^{\circ}$	-65~+175

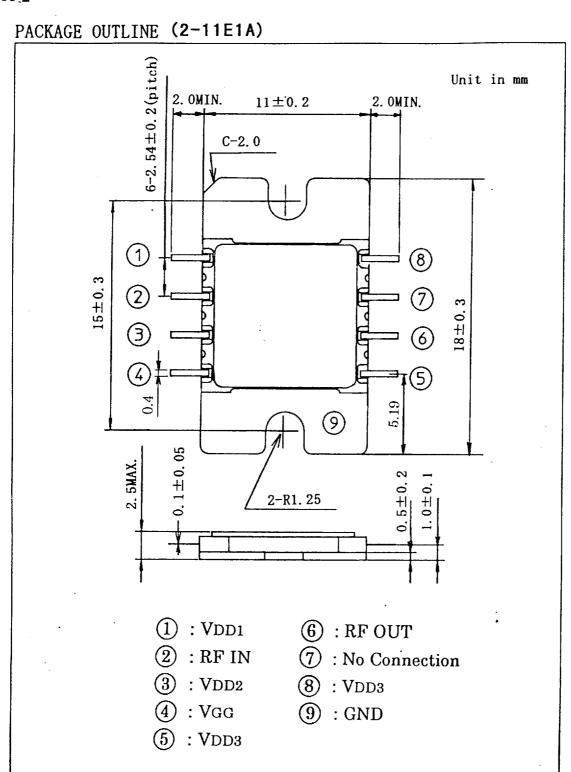
### RF CHARACTERISTICS (Ta=25°C)

CHARACTERISTICS	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Output Power at 1 dB	P1dB	VDD1=VDD2=VDD3=	dBm	32. 0	33. 0	
Gain Compression Point		10V,				
Power Gain at 1 dB	G1dB	VGG=-5 V	dB	20.0	22. 0	_
Gain Compression Point		f= 3.4-5.1 GHz				
Drain Current	IDD *		A		1. 60	1. 90
Input VSWR	VSWRi		.—			3. 0

\* IDD=IDD1+IDD2+IDD3

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<sup>★</sup> 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.



#### HANDLING PRECAUTIONS FOR PACKAGED TYPE

Soldering iron should be grounded and the operating time should not exceed 10 seconds at 260℃. Flanges of devices should be attached using screws and washers. Recommended torques are 0.18-0.20 N·m.