

SANYO

No.3164

2SK1235

N-Channel GaAs MESFET

12GHz-Band Local Oscillator,
Amplifier Applications**Features**

- Casting mold package
- Suited for 12GHz-band local oscillation
- Adoption of high reliable protection film

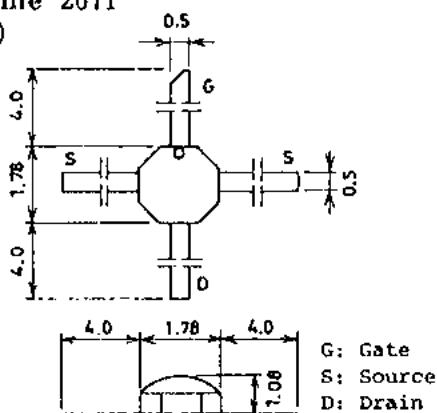
Absolute Maximum Ratings at Ta=25°C

Drain to Source Voltage	V _{DS}	6	V
Gate to Source Voltage	V _{GS}	-5	V
Drain Current	I _D	100	mA
Allowable Power Dissipation	P _D	300	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-65 to +150 °C	

Electrical Characteristics at Ta=25°C

		min	typ	max	unit
Gate to Drain Breakdown Voltage	V _{(BR)GDS} , I _G =-10μA, V _{DS} =0V	-5			V
Gate Cutoff Current	I _{GSS} , V _{GS} =-3V, V _{DS} =0V			-10	μA
Drain Current	I _{DSS} , V _{DS} =3V, V _{GS} =0V	20	60	90	mA
Gate to Source Cutoff Voltage	V _{GS(th)} , V _{DS} =3V, I _D =100μA	-0.5		-5	V
Forward Transfer Admittance	y _{fs} , V _{DS} =3V, I _D =10mA	20	40		mS
Noise Figure	NF, V _{DS} =3V, I _D =10mA, f=12GHz		2.2	3	dB
Associated Gain	GA, V _{DS} =3V, I _D =10mA, f=12GHz	5	6		dB
Maximum Available Power Gain	MAG, V _{DS} =3V, I _D =30mA, f=12GHz		7		dB
Maximum Oscillation Frequency	f _{max} , V _{DS} =3V, I _D =30mA		40		GHz

The application circuit diagrams and circuit constants herein are included as an example and provide no guarantee for designing equipment to be mass-produced. The information herein is believed to be accurate and reliable. However no responsibility is assumed by SANYO for its use; nor for any infringements of patents or other rights of third parties which may result from its use.

Case Outline 2071
(unit : mm)


Specifications and information herein are subject to change without notice.

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