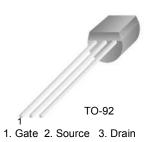


2N5555 N-Channel RF Amplifier

This device is designed primarily for electronic switching applications such as low on resistance analog switching.

• Sourced from process 50.



Absolute Maximum Ratings* Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{DG}	Drain-Gate Voltage	25	V
V _{GS}	Gate-Source Voltage	-25	V
I _{GF}	Forward Gate Current	10	mA
T _J , T _{STG}	Operating and Storage Junction Temperature Range	1 Temperature Range -55 ~ 150 °C	

* This ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

NOTES:

1) These rating are based on a maximum junction temperature of 150 degrees C.

2) These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Max.	Units
P _D	Total Device Dissipation Derate above 25°C	350 2.8	mW mW/°C
$R_{ ext{ heta}JC}$	Thermal Resistance, Junction to Case	125	°C/W
$R_{ hetaJA}$	Thermal Resistance, Junction to Ambient	357	°C/W

May 2008

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Symbol	Parameter	Test Condition	Min.	Max.	Units
Off Charac	teristics		1		
V _{(BR)GSS}	Gate-Source Breakdown Voltage	I _G = 10μΑ, V _{DS} = 0	-25		V
I _{GSS}	Gate Reverse Current	V _{GS} = 15V, V _{DS} = 0, T = 25°C		-1.0	nA
V _{GS(off)}	Gate-Source Cut-off Voltage	V _{DS} = 12V, I _D = 10nA	-2.5	9.5	V
V _{GS(f)}	Gate-Source Forward Voltage	I _G = 1.0mA		1	V
On Charac	teristics		÷	•	•
*I _{DSS}	Zero-Gate Voltage Drain Current *	V _{DS} = 15V, V _{GS} = 0	15		mA
RDS(on)	Drain-Source On Resistance	I _D = 666μA, f = 1.0kHz		150	Ω
Small Sigr	al Characteristics				
Ciss	Input Capacitance	V _{DS} = 15V, V _{GS} = 0V, f = 1.0MHz		5	pF
Crss	Reverse Transfer Capacitance	V _{DS} = 0V, V _{GS} = 10V, f = 1.0MHz		1.2	pF

00μs, Duty Cycl



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