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N-Channel RF Amplifier

This device is designed for electronic switching Applications such as low ON resistance and Sourced from P Applications such as low ON resistance analog switching.
Sourced from Process 50.

Absolute Maximum Ratings * TA=25 degree C unless otherwise noted

Symbol	Parameter	Value	Units V	
VDG	Drain-Gate Voltage	25		
VGS	Gate-Source Voltage	-25	VOY	
Igf	Forward Gate Current	10	mA	
TJ,Tstg	Operating and Storage Junction Temperature Range	-55 to + 155	degree 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 state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics TA = 25 degrees C unless otherwise noted.

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Symbol	Characteristic	Max	Units		
PD	Total Device Dissipation Derate above 25 degrees C	350 2.8	mW mW/degrees C		
RөJC	Thermal Resistance, Junction to Case	rmal Resistance, Junction to Case 125 degrees C/W			
RөJA	Thermal Resistance, Junction to Ambient	357	degrees C/W		

^{*} Device mounted on FR-4 PCB 1.5" X 1.6" X 0.06"

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Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
OFF CHA	ARACTERISTICS	OM.TW WWW.	100X.C	OM.T	LM	
V(BR)GSS	Gate-Source Breakdown Voltage	Ig=-1.0μA, Vps=0	-25	Mo-	IM	V
Igss	Gate Reverse Current	Vgs=-15V,Vps=0	-1003	i.Co	-2.0	nA
VGS(off)	Gate-Source Cutoff Voltage	V _{DS} =15V, ID=2nA	111.100	Y.CO	-8.0	V
Vgs	Gate-Source Voltage	Vps=15V, ID=200μA	-0.5	00Y.C	-7.5	N V
IDSS	Zero-Gate Voltage Drain Current	Vps=15V,Vgs=0	2.0	W.100	20	mA
	Drain Current		WW	11.	7500	MI
gfs	Forward Transconductance	VGS= 0V,VDS=15V,f=1kHz.	2000		7500	μS
WALK.	100X.COM.TW	VGS= 0V,VDS=15V,f=1kHz.	2000	MMM.	7500	
gfs Capacitand C _{iss}	100X.COM.TW	VGS= 0V,VDS=15V,f=1kHz. VGS=15V,VDS=0V f=1 MHz.	2000	MAM MAM MAM'I	7.0	μS

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