

# **Isc N-Channel MOSFET Transistor**

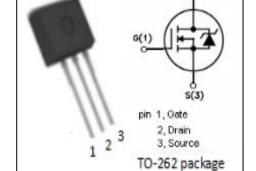
## IRF2807ZL

### • FEATURES

- With To-262 package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

· Switching applications



### • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	75	V
V <sub>G</sub> SS	Gate-Source Voltage	±20	V
l <sub>D</sub>	Drain Current-ContinuousTc=25℃ Tc=100℃	89 63	А
I <sub>DM</sub>	Drain Current-Single Pulsed	350	Α
$P_D$	Total Dissipation @T <sub>C</sub> =25℃	170	W
T <sub>ch</sub>	Max. Operating Junction Temperature	175	$^{\circ}$ C
T <sub>stg</sub>	Storage Temperature	-55~175	℃

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.9	°C/W	

10 10 HZ	A A		F2.
	n	ım	
DIM	MIN	MAX	1
A	4.37	4.77	1
A1	1.22	1.42	
A2	2.47	2.87	1
Ъ	0.70	0.97	1
Ъ2	1.17	1.42	1
С	0.28	0.53	1
D	23.20	24.02	]
D1	8.38	8.90	]
D2	6.00	-8	]
E	9.90	10.39	]
E4	7.30	-	
е	2.54BSC		
G	1.25	1.50	]
H2	- R <del></del>	1.31	]
L	13.34	14.10	]
L1	3.30	4.06	]
L3	0.95	1.15	



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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> = 0.25mA	75			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	$V_{DS}$ = $V_{GS}$ ; $I_D$ =0.25mA	2.0		4.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =53A		7.5	9.4	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±20V;V <sub>DS</sub> = 0V			±0.2	μА
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =75V; V <sub>GS</sub> = 0V;Tj=25°C V <sub>DS</sub> =75V; V <sub>GS</sub> = 0V;Tj=125°C			20 250	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =53A, V <sub>GS</sub> = 0 Vs			1.3	V



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