

Isc N-Channel MOSFET Transistor

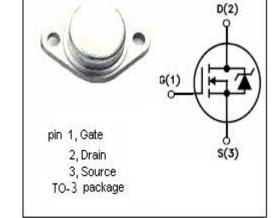
IRFAF30

• FEATURES

- · With To-3 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



Switching applications

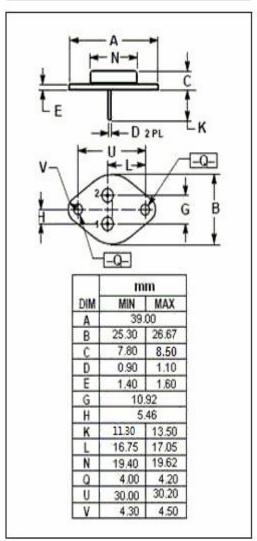


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	900	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	2.0	А
I _{DM}	Drain Current-Single Pulsed	8.0	А
P _D	Total Dissipation @Tc=25℃	75	W
T _{ch}	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	- PARAMETER		UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.42	°C/W



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2A			4.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =720V; V _{GS} = 0V;Tj=25°C V _{DS} =720V; V _{GS} = 0V;Tj=125°C			25 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =2A, V _{GS} = 0V			1.8	V



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