

# isc N-Channel MOSFET Transistor

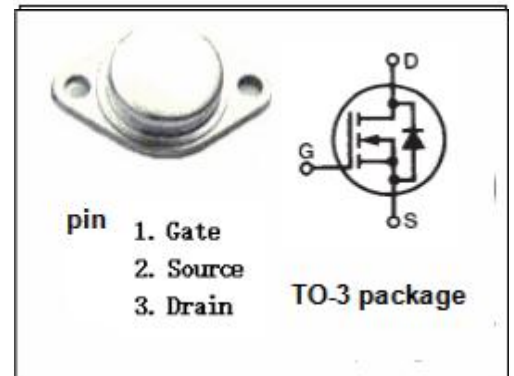
# IRF360

## DESCRIPTION

- silicon Gate for fast switching at elevate
- rugged
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

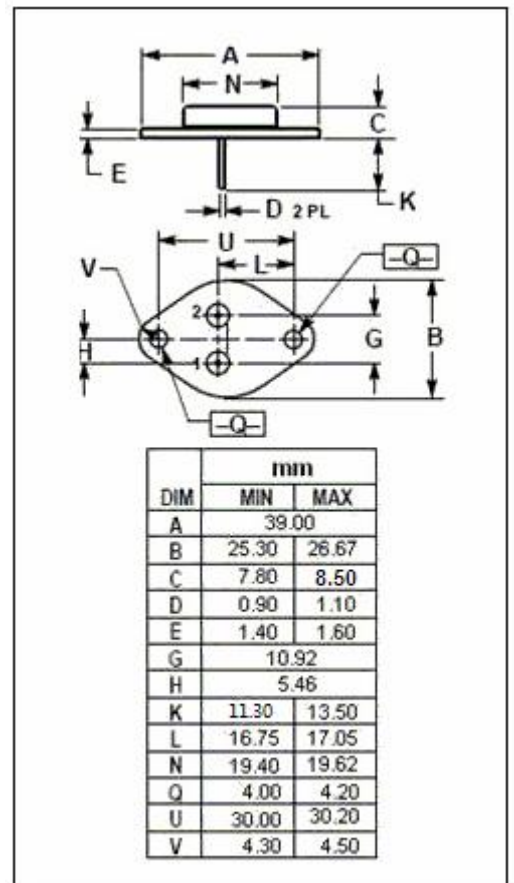
## APPLICATIONS

- suited for applications such as  
Switching power supplies, motor controls, inverters,  
Choppers, audio amplifiers and high energy pulse circuits.



## ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage (V <sub>GS</sub> =0)	400	V
V <sub>GS</sub>	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-continuous@ TC=25°C	25	A
P <sub>tot</sub>	Total Dissipation@TC=25°C	300	W
T <sub>j</sub>	Max. Operating Junction Temperature	-55~150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C



## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	0.42	°C/W
R <sub>th j-a</sub>	Thermal Resistance, Junction to Ambient	30	°C/W

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• ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0; I <sub>D</sub> =0.25mA	400			V
V <sub>GS(TH)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> =250μA	2		4	V
R <sub>DS(ON)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =14A			0.2	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> =±20V; V <sub>DS</sub> =0			±100	nA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> =400V; V <sub>GS</sub> =0			250	uA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> =25A; V <sub>GS</sub> =0			1.8	V

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