

isc N-Channel MOSFET Transistor

IRF460

DESCRIPTION

- Repetitive Avalanche Ratings
- Dynamic dv/dt Rating
- · Hermetically Sealed
- Simple Drive Requirements
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

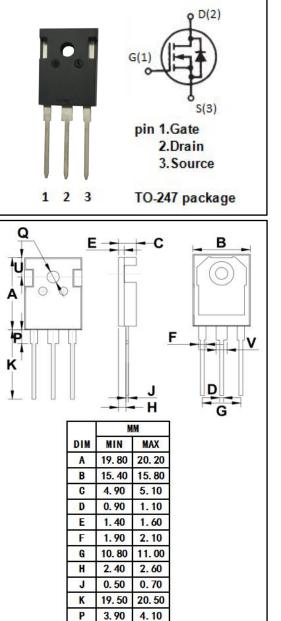
APPLICATIONS

· Designed for applications such as switching power Supplies ,motor controls ,inverters ,choppers ,audio amplifiers and high energy pulse circuits.

VALUE UNIT SYMBOL ARAMETER 500 V V_{DSS} Drain-Source Voltage (V_{GS}=0) V_{GS} Gate-Source Voltage ± 20 V Drain Current-continuous@ TC=25°C 21 I_D А P_{tot} Total Dissipation@TC=25°C 300 W -55~150 °C Ti Max. Operating Junction Temperature °C T_{stg} Storage Temperature Range -55~150 THERMAL CHARACTERISTICS SYMBOL MAX UNIT PARAMETER

Thermal Resistance.Junction to Case





Rth j-c

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°C/W

0.42

1

3.30

5.20

2.90

3.50 5.40

3.10



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ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 1mA	500			V
V _{GS(TH)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	2		4	V
R _{DS(ON)-1}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 14A			0.27	Ω
R _{DS(ON)-2}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 21A			0.31	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0			25	uA
V _{SD}	Diode Forward Voltage	I _F = 21A; V _{GS} = 0			1.8	V

NOTICE:

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