

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IRFP470

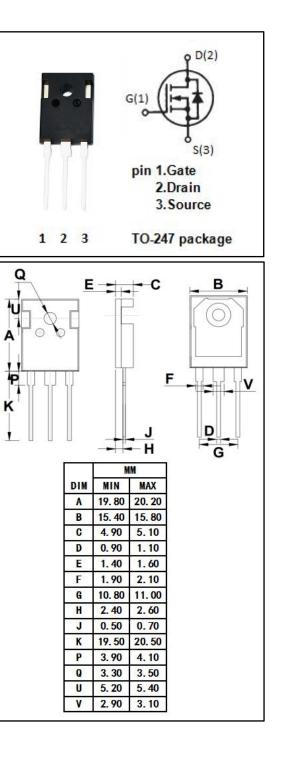
- FEATURES
- With TO-247 packaging
- High speed switching
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	500	V			
V _{GSS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	24	A			
I _{DM}	Drain Current-Single Pulsed	96	A			
PD	Total Dissipation	300	W			
Tj	Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			
THERMAL CHARACTERISTICS						
SYMBOL	PARAMETER	МАХ	UNIT			



Channel-to-case thermal resistance

Rth(ch-c)

°C/W

0.42

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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	500			v
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2		4	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =12A			230	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μ Α
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 400V; V _{GS} = 0;			25	μA
V _{SDF}	Diode forward voltage	I _{SD} =24A, V _{GS} = 0 V			1.5	v

NOTICE:

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