

isc N-Channel MOSFET Transistor

IRFP4368, IIRFP4368

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤1.85mΩ
- Enhancement mode: Vth =2.0 to 4.0 V (VDS=VGS, ID=250 μ A)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

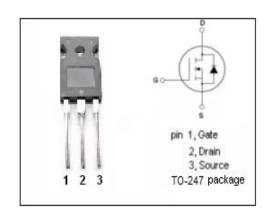
- · High Efficiency Synchronous Rectification in SMPS
- Uninterruptible Power Supply
- · High Speed Power Switching
- Hard Switched And High Frequency Circuits

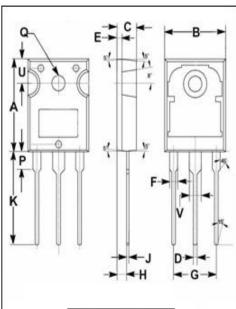
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	75	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	195	А	
I _{DM}	Drain Current-Single Pulsed	1280	А	
P _D	Total Dissipation @T _C =25℃	520	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	0.29	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	40	°C/W





	mm		
DIM	MIN	MAX	
Α	19.80	20.20	
В	15.40	15.80	
C	4.90	5.10	
D	0.90	1.10	
E	1.40	1.60	
F	1.90	2.10	
G	10.80	11.00	
Н	2.40	2.60	
J	0.50	0.70	
K	19.50	20.50	
P	3.90	4.10	
Q	3.30	3.50	
U	5.20	5.40	
٧	2.90	3.10	



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	75			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =250 μ A	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =195A			1.85	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =75V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	I _S =195A, V _{GS} = 0V			1.3	V

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