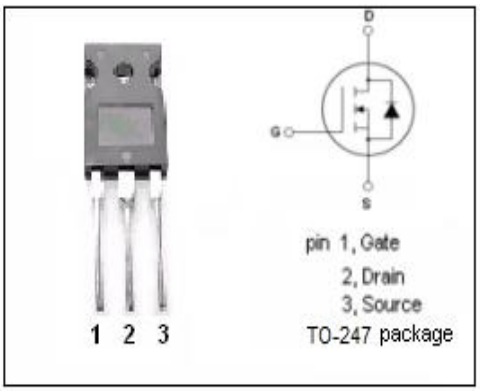
isc N-Channel MOSFET Transistor IRFP4568，IIRFP4568



• FEATURES

- Static drain-source on-resistance:
  $R_{DS(on)} \leqslant 5.9m\Omega$
- Enhancement mode:
  Vth =3.0 to 5.0 V (V_{DS}=V_{GS}, I_D=250 μA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRITION

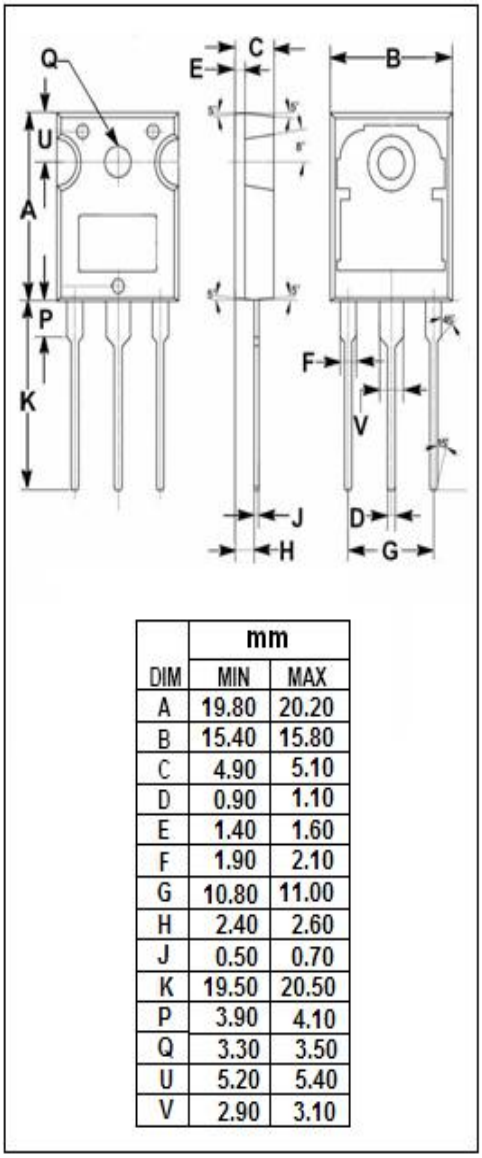
- High Efficiency Synchronous Rectification in SMPS
- Uninterruptible Power Supply
- High Speed Power Switching
- Hard Switched And High Frequency Circuits

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	150	V
V_{GS}	Gate-Source Voltage	±30	V
I_D	Drain Current-Continuous	171	A
I_{DM}	Drain Current-Single Pulsed	684	A
P_D	Total Dissipation @T_C=25℃	517	W
T_j	Max. Operating Junction Temperature	175	℃
T_{stg}	Storage Temperature	-55~175	℃

• THERMAL CHARACTERISTICS

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



DIM	mm MIN	mm MAX
A	19.80	20.20
B	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
H	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
V	2.90	3.10

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	V_{GS}=0V; I_D=250μA	150			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}=V_{GS}; I_D=250μA	3.0		5.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}=10V; I_D=103A			5.9	mΩ
I_{GSS}	Gate-Source Leakage Current	V_{GS}= ±20V			±0.1	μA
I_{DSS}	Drain-Source Leakage Current	V_{DS}=100V; V_{GS}= 0V			20	μA
V_{SD}	Diode forward voltage	I_S=103A, V_{GS} = 0V			1.3	V