

isc P-Channel MOSFET Transistor

FQU11P06

FEATURES

- Drain Current $-I_D = -9.4A @ T_C = 25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = -60V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 0.185 \Omega (\text{Max}) @ V_{GS} = -10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

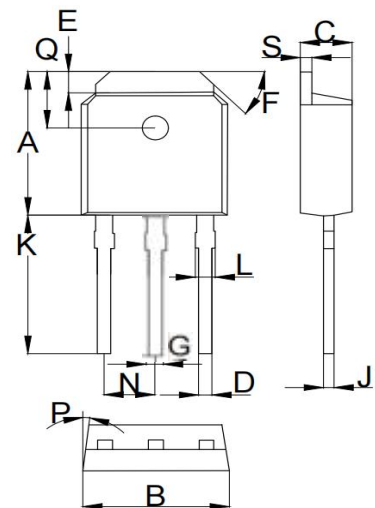
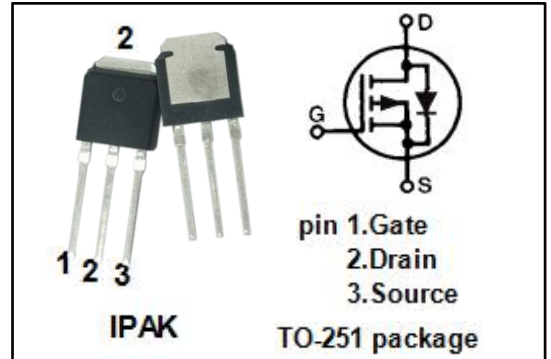
- Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	-60	V
V_{GS}	Gate-Source Voltage-Continuous	± 30	V
I_D	Drain Current-Continuous	-9.4	A
I_{DM}	Drain Current-Single Pulse	-37.6	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	38	W
T_J	Max. Operating Junction Temperature	-55~150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	3.28	$^\circ C/W$



DIM	mm	
	MIN	MAX
A	6.90	7.30
B	6.50	6.70
C	2.20	2.40
D	0.57	0.63
E	0.90	1.10
F	45°	
G	0.57	0.63
J	0.40	0.60
K	9.50	9.70
L	0.70	0.90
N	2.20	2.35
P	7°	
Q	2.750	2.850
S	0.40	0.60

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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0$; $I_D=-0.25\text{mA}$	-60		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=-0.25\text{mA}$	-3.0	-5.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=-10\text{V}$; $I_D=-4.7\text{A}$		0.185	Ω
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 25\text{V}$; $V_{DS}=0$		± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=-60\text{V}$; $V_{GS}=0$		-1.0	μA
V_{SD}	Forward On-Voltage	$I_S=-9.4\text{A}$; $V_{GS}=0$		-4.0	V

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