

isc N-Channel MOSFET Transistor IPD220N06L3,IIPD220N06L3

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 22m\Omega$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

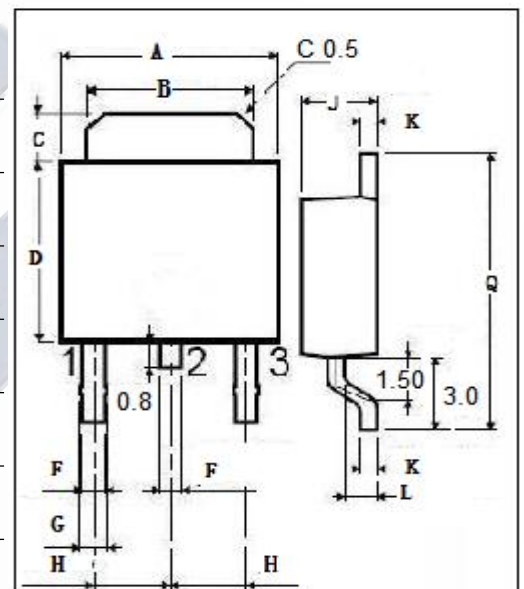
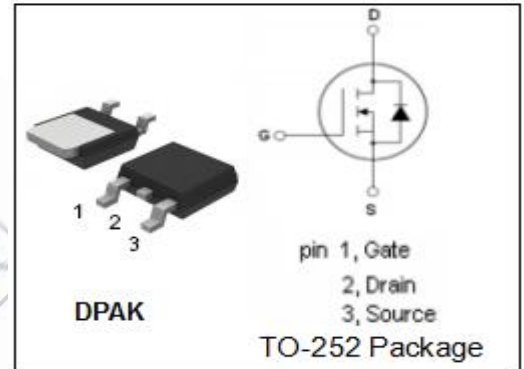
- High frequency switching

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	30	A
I _{DM}	Drain Current-Single Pulsed	120	A
P _D	Total Dissipation @T _c =25°C	36	W
T _j	Max. Operating Junction Temperature	175	°C
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Channel-to-case thermal resistance	4.2	°C/W
R _{th(j-a)}	Channel-to-ambient thermal resistance	62	°C/W



DIM	mm	
	MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V; I_D=1mA$	60			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=11\mu A$	1.2		2.2	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10V; I_D=30A$			22	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=20V$			0.1	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=60V; V_{GS}=0V$			1	μA
V_{SD}	Diode forward voltage	$I_F=30A, V_{GS}=0V$			1.2	V