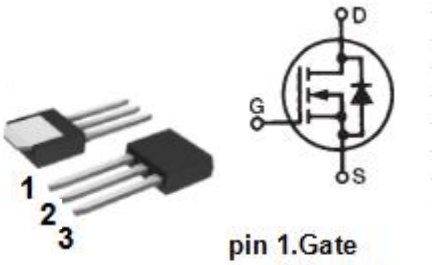
Isc N-Channel MOSFET Transistor STU13NM60N

• FEATURES

- Drain Current –I_D= 11A@ T_C=25℃
- Drain Source Voltage-
  : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 360mΩ (Max)
- 100% avalanche tested
- Low input capacitance and gate charge
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



pin 1.Gate
2.Drain
3.Source

IPAK

TO-251 package

• APPLICATIONS

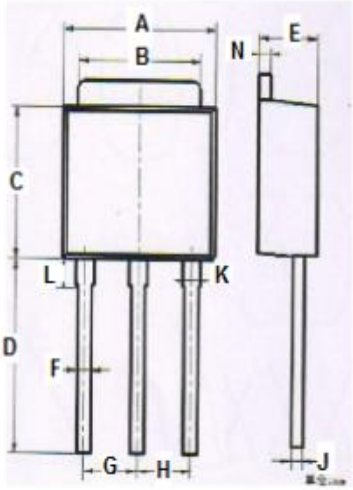
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GSS}	Gate-Source Voltage	±25	V
I_D	Drain Current-Continuous@T_C=25℃	11	A
I_{DM}	Drain Current-Single Pulsed	44	A
P_D	Total Dissipation	25	W
T_j	Operating Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature	-55~150	℃

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.39	℃/W



DIM	mm MIN	MAX
A	6.40	6.48
B	5.10	5.50
C	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
H	2.09	2.49
J	0.40	0.60
K	0.70	0.90
L	1.60	2.00
N	0.40	0.60

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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= 1mA	600			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}=±25V; I_D=0.25mA	2		4	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D=5.5A		280	360	mΩ
I_{GSS}	Gate-Source Leakage Current	V_{GS}= ±25V;V_{DS}= 0V			±0.1	μA
I_{DSS}	Drain-Source Leakage Current	V_{DS}= 600V; V_{GS}= 0V； T_J=25℃ T_J=125℃			1 100	μA
V_{SDF}	Diode forward voltage	I_{SD}=11A, V_{GS} = 0 V			1.5	V