

Isc N-Channel MOSFET Transistor

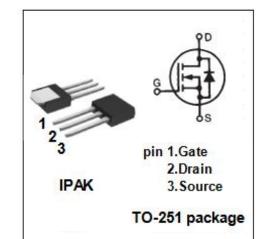
STU10NM60N

FEATURES

- With TO-251(IPAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Switching applications



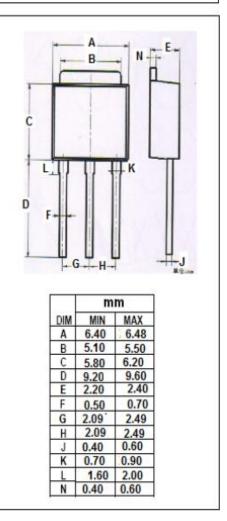
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	600	V			
V _{GSS}	Gate-Source Voltage	±25	V			
ID	Drain Current-Continuous@Tc=25℃ Tc=125℃	10 5	А			
I _{DM}	Drain Current-Single Pulsed	32	А			
P _D	Total Dissipation @T _C =25℃	70	W			
T_{ch}	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM PATINGS(T=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.79	°C/W

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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^\circ\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	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 =4A		60	65	mΩ
lgss	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
VSDF	Diode forward voltage	I _{SD} =8A, V _{GS} = 0 V			1.3	V

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