

Isc N-Channel MOSFET Transistor

STF21NM60ND

• FEATURES

- With TO-220F 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

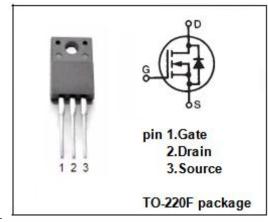


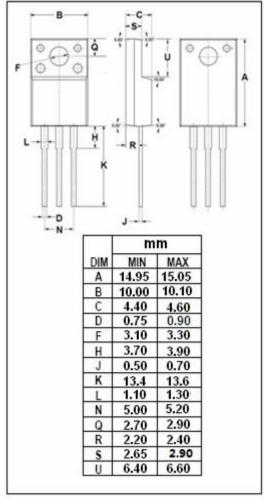
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GSS}	Gate-Source Voltage	±25	V
I _D	Drain Current-Continuous@ T_c =25° C T_c =125° C	17 10	А
Ірм	Drain Current-Single Pulsed	68	Α
P _D	Total Dissipation @T _c =25℃	30	W
T _{ch}	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W











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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	600			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = ±25V; I _D =0.25mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =8.5A		170	220	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V; T _J =25°C T _J =125°C			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =17A, V _{GS} = 0 V			1.6	V



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