

Isc N-Channel MOSFET Transistor

STF13NM60N

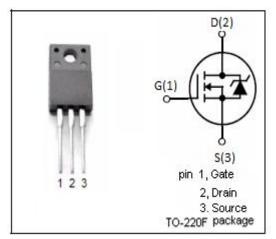
• FEATURES

- · 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

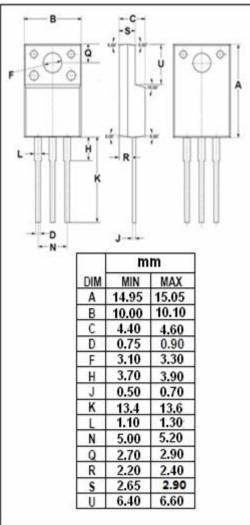


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V_{GSS}	Gate-Source Voltage	±25	V	
I _D	$\begin{array}{c} \text{Drain Current-Continuous@T}_{\text{C}}\text{=}25^{\circ}\!$	11 6.93	А	
I _{DM}	Drain Current-Single Pulsed	44	Α	
P _D	Total Dissipation	25	W	
Tj	Operating Junction Temperature	-55~150	$^{\circ}\!\mathbb{C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	5	°C/W	
Rth(ch-a)	h-a) Channel-to-ambient thermal resistance		°C/W	





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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	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V; T _J =25°C T _J =125°C			1 100	μ A
V _{SDF}	Diode forward voltage	I _{SD} =11A, V _{GS} = 0 V			1.5	V

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