

Isc N-Channel MOSFET Transistor

STP22NM60N

FEATURES

- · Low input capacitance and gate charge
- Low gate input resistances
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Switching applications

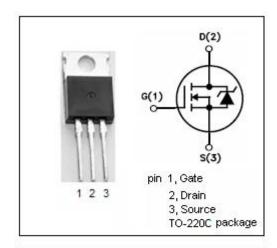


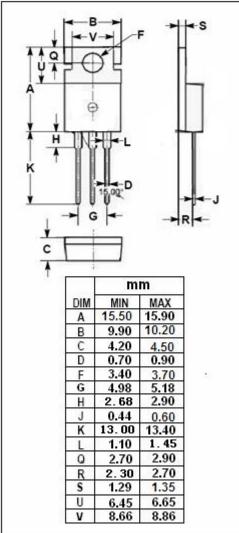
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	$\begin{array}{c} \text{Drain Current-Continuous@T}_{\text{C}}\text{=}25^{\circ}\!$	16 10	Α	
I_{DM}	Drain Current-Single Pulsed	64	А	
P_D	Total Dissipation	125	W	
Tj	Operating Junction Temperature	-55~150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.0	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°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} =±30V; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =8A		200	220	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V; T _J =25°C T _J =125°C			1 100	μ А
V _{SDF}	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.6	V

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