

Isc N-Channel MOSFET Transistor

STW22NM60N

• FEATURES

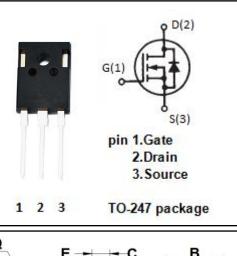
- · Low input capacitance and gate charge
- Low gate input resistances
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

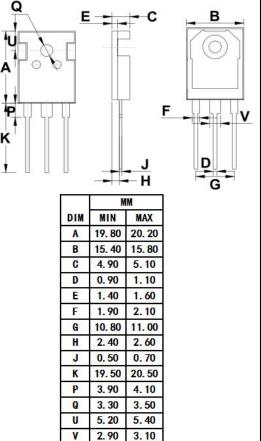
APPLICATIONS

Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

		0,	
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	V
ID	Drain Current-Continuous@T _c =25 $^{\circ}$ C T _c =100 $^{\circ}$ C	16 10	A
I _{DM}	Drain Current-Single Pulsed	64	A
P _D	Total Dissipation	125	W
Tj	Operating Junction Temperature	-55~150	Ĉ
T _{stg}	Storage Temperature	-55~150	°C
• THERM			
SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.0	°C/W





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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ 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} =±30V; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =8A		200	220	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°C T _J =125°C			1 100	μA
VSDF	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.6	V

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