

Isc N-Channel MOSFET Transistor

STW13NM60N

FEATURES

- Drain Current –I_D= 11A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 360m Ω (Max)
- 100% avalanche tested
- · Low input capacitance and gate charge
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

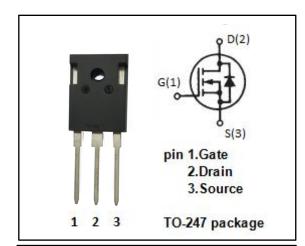
Switching applications

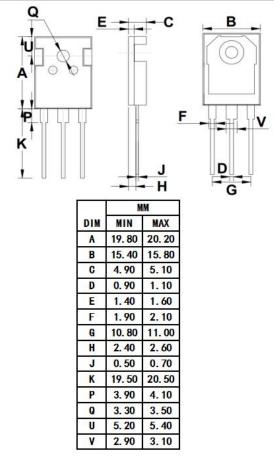
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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		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		$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.39	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ 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 =5.5A		280	360	mΩ
lgss	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} =11A, V _{GS} = 0 V			1.5	V

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