

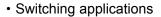
isc N-Channel Mosfet Transistor

STP13NM60ND

FEATURES

- Drain Current I_D= 11A@ T_C=25℃
- Drain Source Voltage-
 - : V_{DSS}=600V(Min)
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





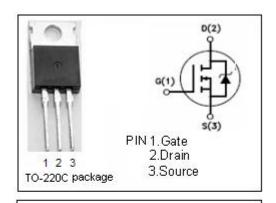


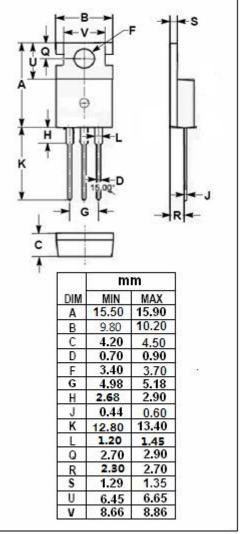
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage ±25		V	
I _D	Drain Current-continuous@ T _c =25°C	11	А	
I _{DM}	Pulse Drain Current	44		
P _{tot}	Total Dissipation@T _C =25°C	110	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.14	°C/W







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	600			٧
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	3		5	V
V _{SD}	Diode Forward On-Voltage	I _S =11A;V _{GS} = 0			1.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =5.5A			380	mΩ
I _{GSS}	Gate-Body Leakage Current	$V_{GS} = \pm 20V; V_{DS} = 0$			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0			1	- μΑ
		V _{DS} = 600V; T _C =125℃			100	

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