

isc N-Channel MOSFET Transistor

STP34NM60ND

FEATURES

- Drain Current $-I_D=29A@T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}=600V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(on)}=110m\Omega(\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

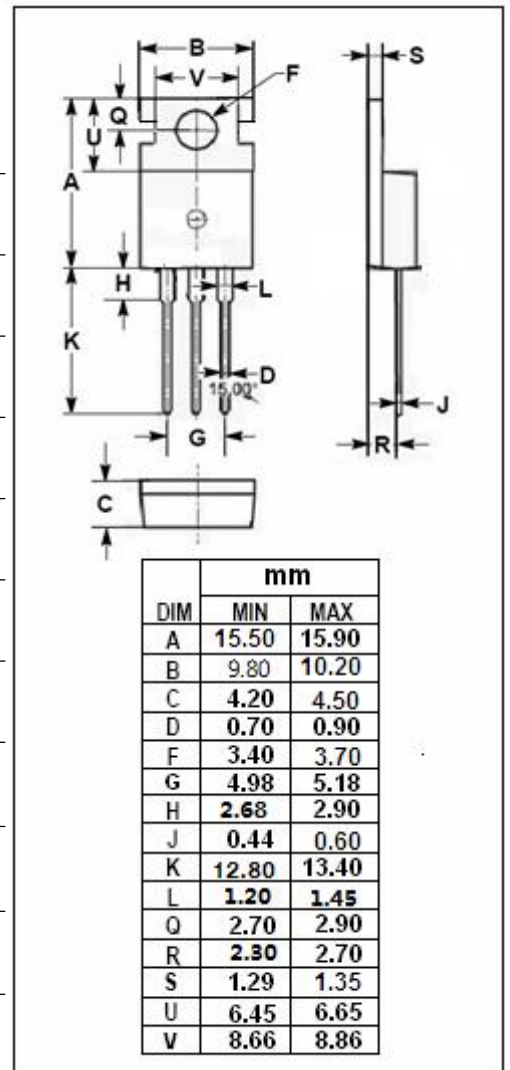
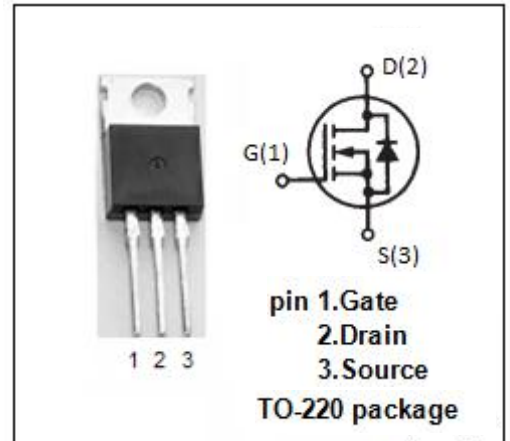
- Switching application

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage-Continuous	± 25	V
I_D	Drain Current-Continuous	29	A
I_{DM}	Drain Current-Single Pluse	116	A
P_D	Total Dissipation @ $T_C=25^{\circ}C$	190	W
T_J	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	0.66	$^{\circ}C/W$



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0$; $I_D=1\text{mA}$	600		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=0.25\text{mA}$	3	5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}$; $I_D=14.5\text{A}$		110	$\text{m}\Omega$
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 25\text{V}$; $V_{DS}=0$		± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=600\text{V}$; $V_{GS}=0$ $V_{DS}=600\text{V}$; $V_{GS}=0$; $T_j=125^{\circ}\text{C}$		1 100	μA
V_{SD}	Forward On-Voltage	$I_S=29\text{A}$; $V_{GS}=0$		1.6	V

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