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N-Channel Mosfet Transistor

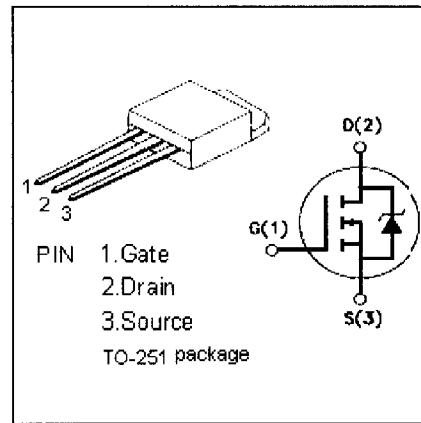
MTP1N60

• FEATURES

- Drain Current - $I_D = 1A @ T_c=25^\circ C$
- Drain Source Voltage:
: $V_{DSS} = 600V$ (Min)
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 8 \Omega$ (Max)
- Avalanche Energy Specified
- Fast Switching
- Simple Drive Requirements

• DESCRIPTION

- Designed for high efficiency switch mode power supply.



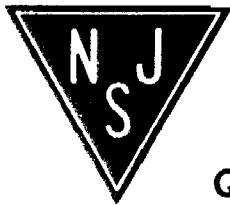
• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	1	A
I_{DM}	Drain Current-Single Plused	4	A
P_D	Total Dissipation @ $T_c=25^\circ C$	28	W
T_j	Max. Operating Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance,Junction to Case	4.5	°C/W
$R_{th j-a}$	Thermal Resistance,Junction to Ambient	110	°C/W

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 0.5A		8	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		1	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1.8	V