

isc N-Channel Mosfet Transistor

7N60

FEATURES

- Drain Current -I_D= 7.4A@ T_C=25°C
- Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.2 \Omega (Max)$
- · Avalanche Energy Specified
- · Fast Switching
- Simple Drive Requirements
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

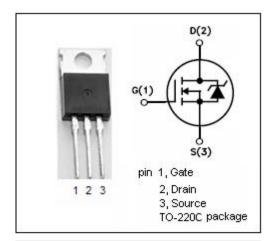
• Designed for high efficiency switch mode power supply.

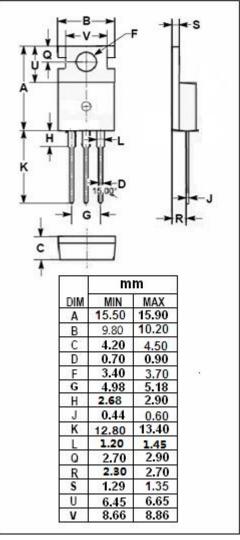
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous ±30		V
I _D	Drain Current-Continuous	7.4	Α
I _{DM}	Drain Current-Single Plused 29.6		Α
P _D	Total Dissipation @T _C =25°C 142		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.88	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient		°C/W







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ELECTRICAL CHARACTERISTICS

T_c=25℃ 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 = 3.7A		1.2	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		10	μА
V _{SD}	Forward On-Voltage	I _S = 7.4A; V _{GS} = 0		1.8	V

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