

isc N-Channel MOSFET Transistor

10N60

• FEATURES

- Drain Current –I_D= 9.5A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.73 \Omega (Max)$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



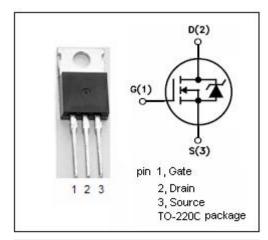
• Designed for high efficiency switch mode power supply.

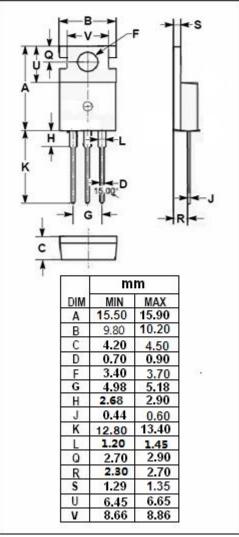
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	9.5	Α
I _{DM}	Drain Current-Single Plused	38	Α
P _D	Total Dissipation @T _C =25°C	156	W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature -55		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case 0.8		°C/W
R _{th j-a}	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 = 4.75A		0.73	Ω
I _{GSS}	Gate-Body Leakage Current	$V_{GS} = \pm 30V; V_{DS} = 0$		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		1	μ A
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0		1.4	V



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