

isc N-Channel MOSFET Transistor

AOT7N60

FEATURES

- Drain Current –I_D= 7.0A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ =1.2 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

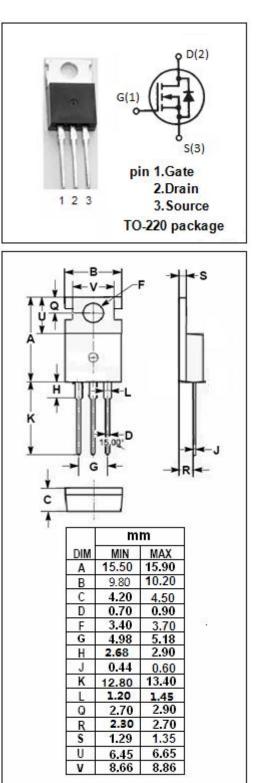
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER VAL		UNIT				
V _{DSS}	Drain-Source Voltage	600	V				
V_{GS}	Gate-Source Voltage-Continuous	±30	V				
ID	Drain Current-Continuous	7.0	A				
I _{DM}	Drain Current-Single Pluse	28	А				
PD	Total Dissipation @T _C =25℃ 192		W				
TJ	Max. Operating Junction Temperature	-55~150	°C				
T _{stg}	Storage Temperature -55~150		°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.65	°C/W





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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	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	3.0	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.5A		1.2	Ω
lgss	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 V _{DS} =480V; V _{GS} = 0@T _J =55℃		1 10	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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