

isc N-Channel MOSFET Transistor

AOT15S60L

FEATURES

- Drain Current –I_D= 15A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.78 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

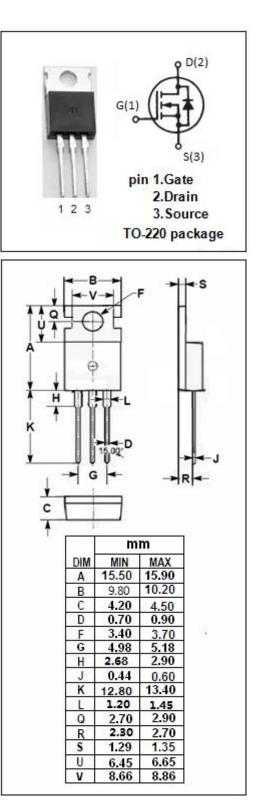
• Designed for use in switch mode power supplies and general purpose applications.

SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	600	V				
V _{GS}	Gate-Source Voltage-Continuous	±30	V				
ID	Drain Current-Continuous	15	А				
I _{DM}	Drain Current-Single Pluse	63	A				
P _D	Total Dissipation @T _c =25°C 208		W				
TJ	Max. Operating Junction Temperature	-55~150	°C				
T _{stg}	Storage Temperature	-55~150					

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.6	°C/W





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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	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} = 5V; I _D = 0.25mA	2.5		3.8	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 7.5A			0.29	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 =150°C		10	1	μA
V _{SD}	Forward On-Voltage	I _S = 7.5A; V _{GS} = 0		0.83		V

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