

isc N-Channel MOSFET Transistor

AOT2500L

FEATURES

- Drain Current –I_D= 152A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}= 150V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 6.5m \Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

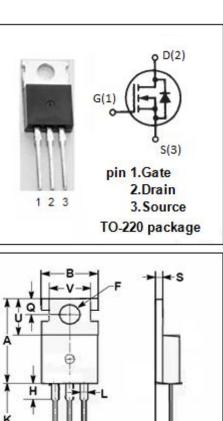
• Designed for use in switch mode power supplies and general purpose applications.

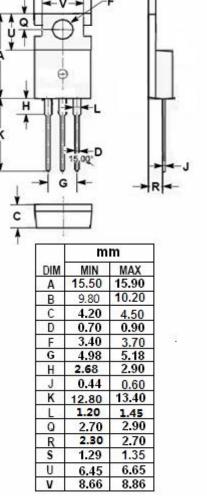
SYMBOL	PARAMETER VALUE		UNIT	
V _{DSS}	Drain-Source Voltage 150		V	
V _{GS}	Gate-Source Voltage-Continuous ±		V	
ID	Drain Current-Continuous 152		A	
I _{DM}	Drain Current-Single Pluse	-Single Pluse 440		
P _D	Total Dissipation @T _c =25℃	375	W	
TJ	Max. Operating Junction Temperature	-55~175	°C	
T _{stg}	Storage Temperature	-55~175	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.4	°C/W





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	150		v
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 0.25mA	2.3	3.5	v
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A		6.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 150V; V _{GS} = 0 V _{DS} = 150V; V _{GS} = 0;T _J =55°C		1 5	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V

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