

isc N-Channel MOSFET Transistor

AOT288L

• FEATURES

- Drain Current $-I_D = 46A @ T_C = 25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = 80V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 9.2m\Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

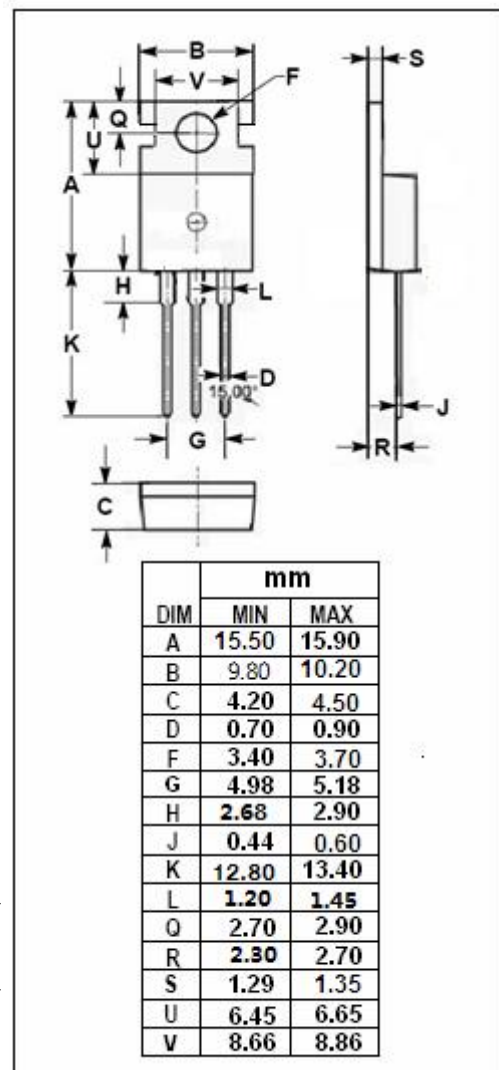
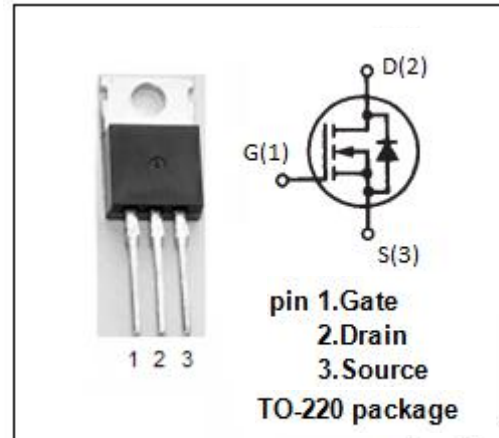
- Be suitable for synchronous rectification for server and general purpose applications

• ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	80	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	46	A
I_{DM}	Drain Current-Single Pulsed	160	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	93.5	W
T_j	Max. Operating Junction Temperature	-55~175	$^\circ C$
T_{stg}	Storage Temperature	-55~175	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	1.6	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 250 μA	80		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250 μA	2.3	3.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A V _{GS} = 10V; I _D = 20A; T _J = 125°C		9.2 15.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 80V; V _{GS} = 0V V _{DS} = 80V; V _{GS} = 0V; T _J = 55°C		1 5	μA
V _{SD}	Diode forward voltage	I _S = 1A; V _{GS} = 0V		1	V

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