

isc N-Channel MOSFET Transistor

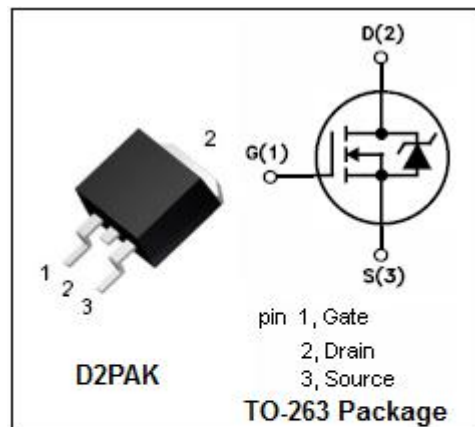
AOB298L

• DESCRIPTION

- Drain Current $I_D = 58A @ T_C = 25^\circ C$
- Drain Source Voltage
: $V_{DSS} = 100V (Min)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

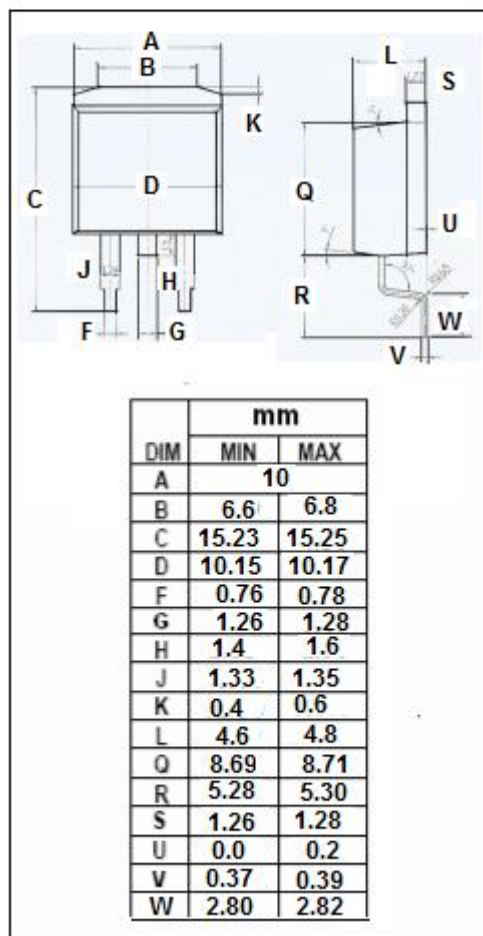
- Be ideal for boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS} = 0$)	100	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $T_C = 25^\circ C$	58	A
$I_{D(puls)}$	Pulse Drain Current	130	A
P_{tot}	Total Dissipation@ $T_C = 25^\circ C$	100	W
T_j	Operating Junction Temperature	-55~175	$^\circ C$
T_{stg}	Storage Temperature Range	-55~175	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance, Junction to Case	1.5	$^\circ C/W$



isc N-Channel MOSFET Transistor**AOB298L****• ELECTRICAL CHARACTERISTICS (T_c=25°C)**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.7	4.1	V
V _{SD}	Diode Forward On-Voltage	I _S =1A; V _{GS} = 0		1.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A		14.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0		1	μA

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