

isc N-Channel MOSFET Transistor

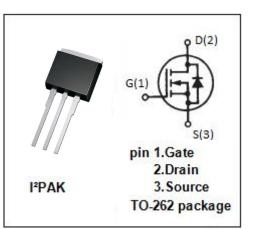
AOW298

• FEATURES

- Drain Current –I_D= 58A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 14.5m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

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



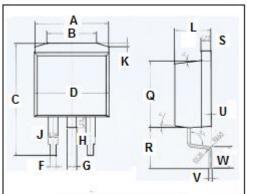
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

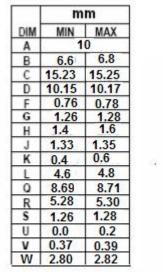
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous 58		А
I _{DM}	Drain Current-Single Pulsed	130	А
PD	Total Dissipation @Tc=25℃	100	W
Tj	Max. Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.5	°C/W

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isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 250 μ A	2.7	4.1	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A V _{GS} = 10V; I _D = 20A;T _J = 125°C		14.5 24	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = ±20V; V_{DS} = 0V		±100	nA
IDSS	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V V _{DS} = 100V; V _{GS} = 0V;T _J = 55°C		1 5	μA
V _{SD}	Diode forward voltage	Is= 1A; V _{GS} = 0V		1	V

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