

isc N-Channel MOSFET Transistor

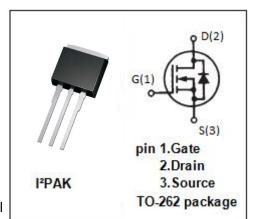
AOW480

FEATURES

- Drain Current –I_D=180A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=80V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 4.5m 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.

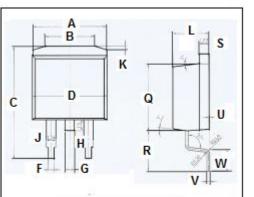


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	80	V	
V_{GS}	Gate-Source Voltage-Continuous	±25	V	
ID	Drain Current-Continuous	180	А	
I _{DM}	Drain Current-Single Pluse	500	А	
P _D	Total Dissipation @T _C =25℃	333	W	
TJ	Max. Operating Junction Temperature	-55~175	°C	
T _{stg}	Storage Temperature	-55~175	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.45	°C/W	



	mm	
MIC	MIN	MAX
A	1	0
В	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
н	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
0	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
٧	0.37	0.39
W	2.80	2.82

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	80		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A		4.5	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 80V; V _{GS} = 0 V _{DS} = 80V; V _{GS} = 0@T _J = 55℃		10 50	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V

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