

isc N-Channel MOSFET Transistor

AOB254L

FEATURES

- Drain Current –I_D= 32A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}= 150V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 46m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

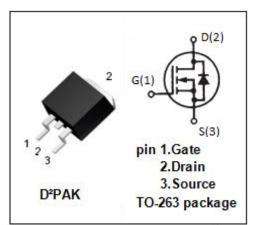
• Designed for use in switch mode power supplies and general purpose applications.

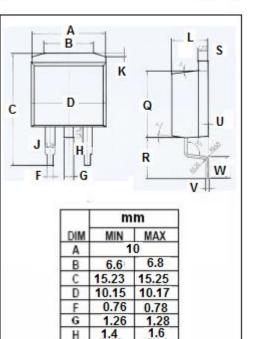
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage 150						
V _{GS}	Gate-Source Voltage-Continuous ±20						
ID	Drain Current-Continuous	32	A				
I _{DM}	Drain Current-Single Pluse 70		A				
P _D	Total Dissipation @T _c =25℃	125	W				
TJ	Max. Operating Junction Temperature -55~175		°C				
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	1.2	°C/W





õ	4.6 8.69	4.8
R	5.28	5.3
s	1.26	1.28
U	0.0	0.2
٧	0.37	0.39
W	2.80	2.82

1.33

1 35

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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	1.7	2.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A V _{GS} = 10V; I _D = 20A;TJ=125℃		46 90	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	μ Α
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V

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