

isc N-Channel MOSFET Transistor

AOB12N60FD

FEATURES

- Drain Current –I_D=12A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.65 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

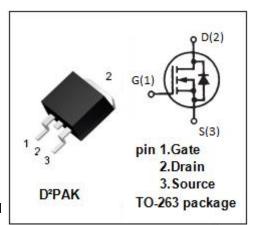
• Designed for use in switch mode power supplies and general purpose applications.

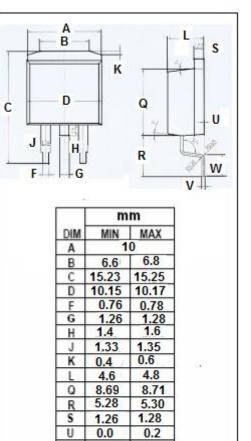
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage	Source Voltage 600				
V _{GS}	Gate-Source Voltage-Continuous ±30		V			
ID	Drain Current-Continuous	12	A			
I _{DM}	Drain Current-Single Pluse 48		A			
P _D	Total Dissipation @T _c =25℃	278	W			
TJ	Max. Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature -55~150		°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

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





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w

0.37

2.80

0.39

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	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	2.4	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6A		0.65	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 600V; V_{GS} = 0 V_{DS} = 480V; V_{GS} = 0@T _J =125°C		10 100	μA
V _{SD}	Forward On-Voltage	I _S = 12A; V _{GS} = 0		1.6	V

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