

isc N-Channel MOSFET Transistor

AOD492

FEATURES

- Drain Current –I_D= 85A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=30V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 4.4m \Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

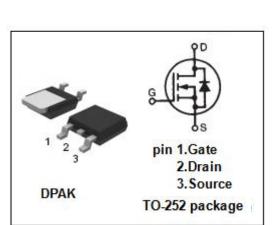
• Designed for use in switch mode power supplies and general purpose applications.

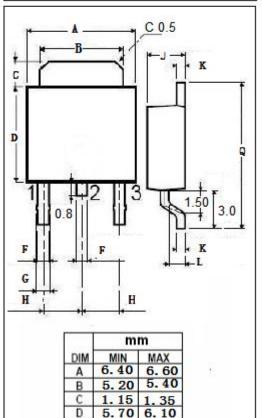
ABSOLUTE MAXIMOW RATINGS(Ta=23 C)						
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage	30	V			
V _{GS}	Gate-Source Voltage-Continuous ±20		V			
ID	Drain Current-Continuous	85	А			
I _{DM}	Drain Current-Single Pluse	200	A			
P _D	Total Dissipation @T _c =25℃	100	W			
TJ	Max. Operating Junction 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	1.5	°C/W





0.65

2.10

0.40

0.90

0.75

2.50

2.40

0.60

¹ *isc & iscsemi* is registered trademark

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isc website: <u>www.iscsemi.com</u>



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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	30		V
V _{GS} (th)	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	1.2	2.2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A V _{GS} = 10V; I _D =20A@T _J =125°C		4.4 7.7	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±0.1	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0 V _{DS} = 30V; V _{GS} = 0@T _J =55℃		0.1 20	mA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		0.5	V



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