

isc N-Channel MOSFET Transistor

AOD496A

FEATURES

- Drain Current –I_D= 57A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=30V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 9m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

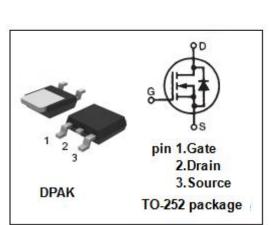
• Designed for use in switch mode power supplies and general purpose applications.

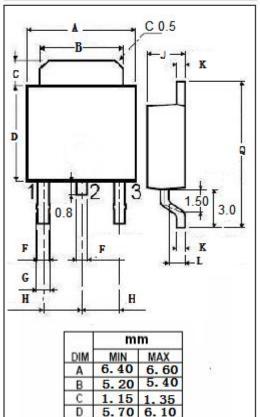
SYMBOL	PARAMETER VAL		UNIT			
V _{DSS}	Drain-Source Voltage 30		V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	57	А			
I _{DM}	Drain Current-Single Pluse	100	A			
P _D	Total Dissipation @T _c =25℃	50	w			
TJ	Max. Operating Junction Temperature -55~175		°C			
T _{stg}	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	3.0	°C/W





0.65

2.10

0.40

0.90

0.75

2.50

2.40

0.60

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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		9 13	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
loss	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0 V _{DS} = 30V; V _{GS} = 0@T _J =55℃		1 5	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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