

isc N-Channel MOSFET Transistor

AOD508

FEATURES

- Drain Current –I_D= 70A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=30V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 3.0m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

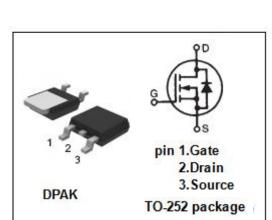
• Designed for use in switch mode power supplies and general purpose applications.

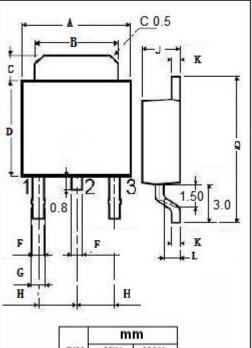
ADSOLUTE WIAATIWUWI KATINGS(Ta-25 C)						
SYMBOL	PARAMETER	PARAMETER VALUE				
V _{DSS}	Drain-Source Voltage	30	V			
V _{GS}	Gate-Source Voltage-Continuous ±20		V			
ID	Drain Current-Continuous	70				
I _{DM}	Drain Current-Single Pluse 159		A			
PD	Total Dissipation @T _c =25℃	50	W			
TJ	Max. Operating Junction Temperature	-55~175	°C			
T _{stg}	Storage Temperature	-55~175	°C			

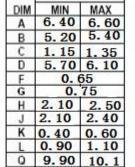
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.0	°C/W







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

¹ *isc & iscsemi* is registered trademark



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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 =4.5A V _{GS} = 10V; I _D =4.5A@T _J =125℃		3.0 4.4	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°C		1 5	μ Α
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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