isc N-Channel MOSFET Transistor

AOD450

FEATURES

- Drain Current -I_D= 3.8A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.7 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



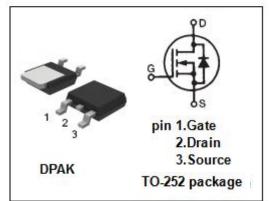
 Designed for use in switch mode power supplies and general purpose applications.

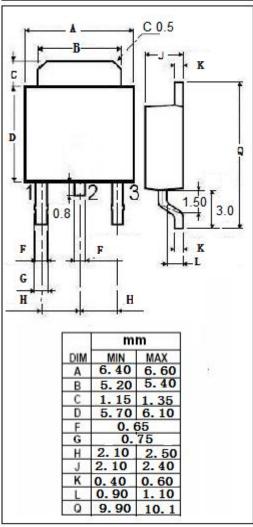
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	3.8	А
I _{DM}	Drain Current-Single Pluse	10	А
P _D	Total Dissipation @T _C =25℃	25	W
TJ	Max. Operating Junction Temperature -55~175		$^{\circ}$ C
T _{stg}	Storage Temperature -55~175		°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	6	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	200		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	3	6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.8A V _{GS} = 10V; I _D =3.8A@T _J =125°C		0.7 1.32	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
l _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 160V; V _{GS} = 0 V _{DS} = 160V; V _{GS} = 0@T _J =55℃		1 5	μ А
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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