

isc N-Channel MOSFET Transistor

AOD200

FEATURES

- Drain Current –I_D=36A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=30V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 7.8m 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.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	30	V		
V _{GS}	Gate-Source Voltage-Continuous	±20	V		
ID	Drain Current-Continuous		A		
I _{DM}	Drain Current-Single Pluse	120	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)

DPAK DPAK DPAK DPAK TO-252 package

	mm		
DIM	MIN	MAX	
Α	6.40	6.60	
В	5.20	5.40	
С	1.15	1.35	
D	5.70	6.10	
F	0.65		
G	0.75		
н	2.10	2.50	
J	2.10	2.40	
Κ	0.40	0.60	
L	0.90	1.10	
Q	9.90	10.1	

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THERMAL CHARACTERISTICS

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

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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	1.3	2.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A V _{GS} = 10V; I _D =20A;@T _J =125℃		7.8 11.5	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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