

isc N-Channel MOSFET Transistor

AOD2910E

• FEATURES

- With TO-252(DPAK) packaging
- · High speed switching
- · Very high commutation ruggedness
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

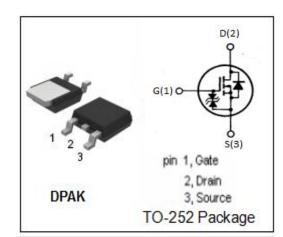
- Power supply
- · Industrial and motor drive applications
- DC/DC and AC/DC converters
- · Switching applications

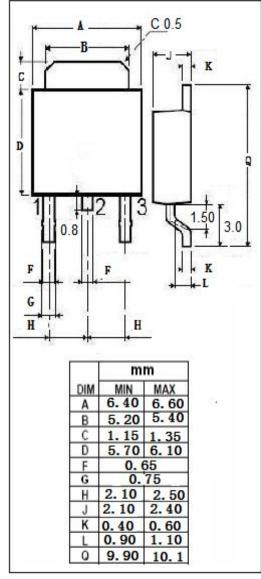


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	100	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous@ T_c =25°C T_c =100°C	37 26	А	
I _{DM}	Drain Current-Single Pulsed	70	А	
P _D	Total Dissipation	71.5	W	
T _j	Operating Junction Temperature	-55~175	°C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.1	°C/W	
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°C/W	







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.25mA	1.6		2.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A		18.5	23	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V;Tc=25°C V _{DS} = 100V; V _{GS} = 0V;Tc=55°C			1 5	μА
V _{SDF}	Diode forward voltage	I _{SD} =1A, V _{GS} = 0 V			1.0	V



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