

INCHANGE SEMICONDUCTOR

Isc N-Channel MOSFET Transistor

AOD2610

• FEATURES

- With To-252(DPAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

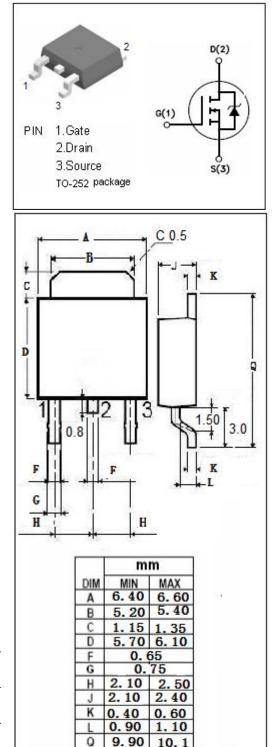
Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	60	V				
V _{GSS}	Gate-Source Voltage	±20	∧v				
ID	Drain Current-Continuous@Tc=25℃ Tc=100℃	46 36	A				
I _{DM}	Drain Current-Single Pulsed	140	A				
PD	Total Dissipation @Tc=25°C	71.5	W				
T _{ch}	Max. Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature	-55~175	°C				

THERMAL CHARACTERISTICS

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

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ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^\circ\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	60			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	1.4		2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A		8.7	10.7	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			1	μA
V _{SDF}	Diode forward voltage	I _{SD} =1A, V _{GS} = 0V			1	V

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