

INCHANGE SEMICONDUCTOR

isc P-Channel MOSFET Transistor

AOD409

• FEATURES

- With TO-252(DPAK) packaging
- High speed switching
- · Low gate input resistance
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

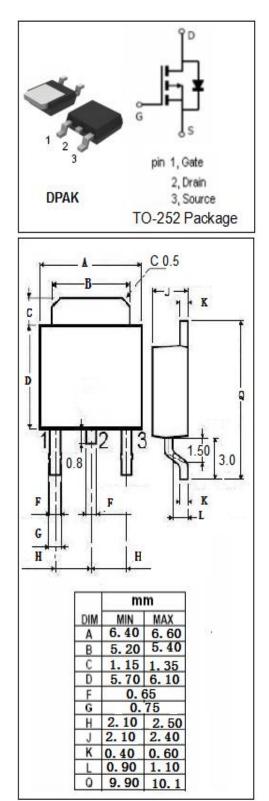
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	-60	V				
V _{GSS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous@Tc=25℃ Tc=100℃	-26 -18	А				
I _{DM}	Drain Current-Single Pulsed	-60	А				
PD	Total Dissipation	60	W				
Tj	Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature	-55~175	°C				

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°C /W	
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°C/W	

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ 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	-1.2		-2.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D =-20A		32	40	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -48V; V _{GS} = 0V;Tj=25℃ Tj=55℃			-1 -5	μA
V _{SDF}	Diode forward voltage	I _{SD} =-1A, V _{GS} = 0 V			-1	V

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