

isc P-Channel MOSFET Transistor

AOD423

• 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

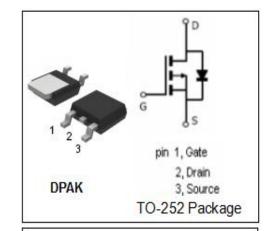


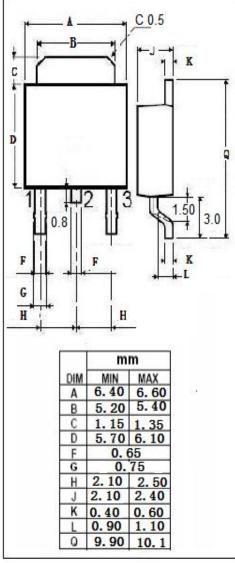
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	-30	V	
V _{GSS}	Gate-Source Voltage	±25	V	
I _D	Drain Current-Continuous@ T_c =25° C T_c =100° C	-70 -67	А	
I _{DM}	Drain Current-Single Pulsed	-200	А	
P _D	Total Dissipation	90	W	
Tj	Operating Junction Temperature	175	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.6	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°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	-30			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =-0.25mA	-1.5		-3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D =-20A		6.2	8.0	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -64V; V _{GS} = 0V;Tj=25℃ Tj=55℃			-1 -5	μА
V _{SDF}	Diode forward voltage	I _{SD} =-1A, V _{GS} = 0 V			-1	V

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