

Isc P-Channel MOSFET Transistor

AOD403

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



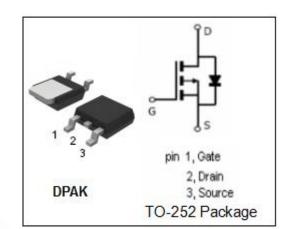
- · Switching applications
- Motor contorl
- DC-DC conventers

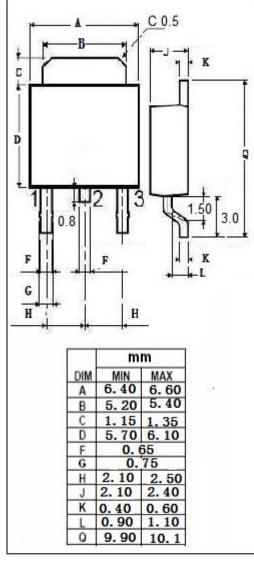
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	-30	V		
V_{GSS}	Gate-Source Voltage	±25	V		
I _D	Drain Current-Continuous Tc=25℃ Tc=100℃	-70 -55	А		
I _{DM}	Drain Current-Single Pulsed	-200	А		
P_D	Total Dissipation @T _C =25℃	90	W		
Tj	Max. Operating Junction Temperature	175	$^{\circ}$		
T _{stg}	Storage Temperature	-55~175	°C		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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°C 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		5.1	6.2	mΩ
Igss	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =-30V; V _{GS} = 0V;Tc=25°C 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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