

isc N-Channel MOSFET Transistor

AOD2606

• FEATURES

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

APPLICATIONS

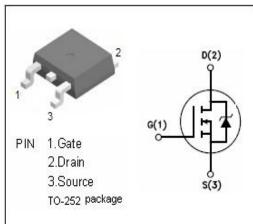
- Power supply
- DC-DC converters
- Motor control
- · Switching applications

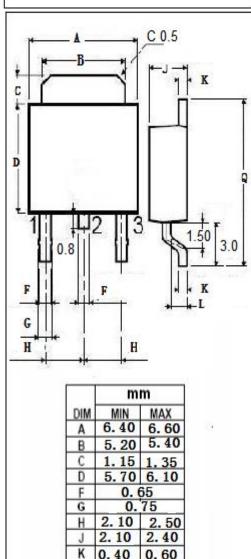


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage		V
V _{GSS}	Gate-Source Voltage ±20		V
I _D	Drain Current-Continuous 46 36		А
I _{DM}	Drain Current-Single Pulsed		Α
P _D	Total Dissipation 150		W
Tj	Operating Junction Temperature -55~17		$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.0	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°C/W





0.90



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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	60			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.25mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A;Tj=25℃ Tj=125℃		5.6 8.8	6.8 10.6	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V;Tj=25℃ Tj=55℃			1 5	μА
V _{SDF}	Diode forward voltage	I _{SD} =1A, V _{GS} = 0 V			1.0	V



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