

Isc N-Channel MOSFET Transistor

STD130N6F7

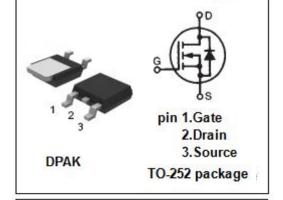
FEATURES

- With To-225(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



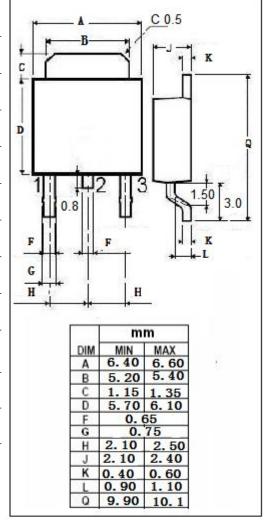


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GSS}	Gate-Source Voltage	±20	V
ID	Drain Current-ContinuousTc=25℃ 80		Α
I _{DM}	Drain Current-Single Pulsed	320	Α
P _D	Total Dissipation @T _C =25℃	134	W
T _{ch}	Max. Operating Junction Temperature	-55~175	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rthj-case	Thermal resistance junction-case	1.12	°C/W



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A			5	mΩ
lgss	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;			1	μА
V _{SDF}	Diode forward voltage	I _{SD} = 80A, V _{GS} = 0 V			1.2	V



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