

Isc N-Channel MOSFET Transistor

UT20N03

• 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



APPLICATIONS

· Switching applications

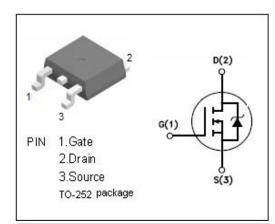


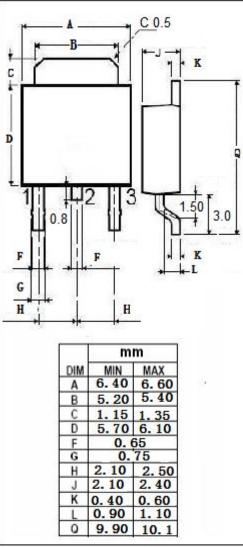
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	30	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	20	А
I _{DM}	Drain Current-Single Pulsed	120	А
P _D	Total Dissipation @Tc=25℃	60	W
T_ch	Max. Operating Junction Temperature	175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}\mathbb{C}$



SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	hannel-to-case thermal resistance 2.5		°C/W		
Rth(ch-a)	Channel-to-ambient thermal resistance		°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 =0.025mA	1.2		2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =15A		15.5	20	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =30V; V _{GS} = 0V			1	μА
V _{SDF}	Diode forward voltage	I _{SD} =30A, V _{GS} = 0 V			1.4	V



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