

Isc N-Channel MOSFET Transistor

IXFY36N20X3

• 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

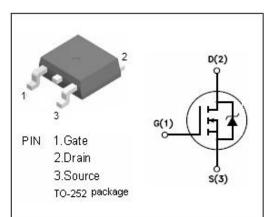


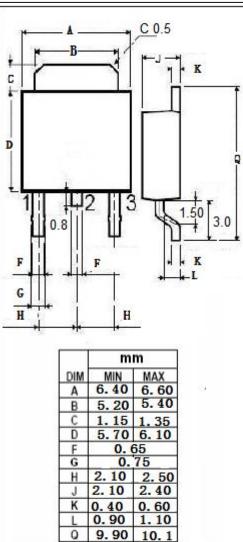
 ABSOLUTE 	MAXIMIIM	RATINGS(Ta=25	ነ°Cነ

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	200	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	36	А	
I _{DM}	Drain Current-Single Pulsed	145	А	
P _D	Total Dissipation @Tc=25℃	170	W	
T _{ch}	Max. Operating Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.73	°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	200			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.5mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =18A		38	45	mΩ
l _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			5	μА
V _{SDF}	Diode forward voltage	I _{SD} =36A, V _{GS} = 0 V			1.4	V



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