

isc N-Channel MOSFET Transistor

IXFP8N85XM

FEATURES

- · High power dissipation
- Static drain-source on-resistance:
 R_{DS}(on) ≤ 850mΩ@V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

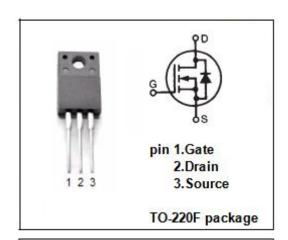
- DC/DC Converters
- · AC and DC Motor Drives
- Switch-Mode and Resonant-Mode Power Supplies

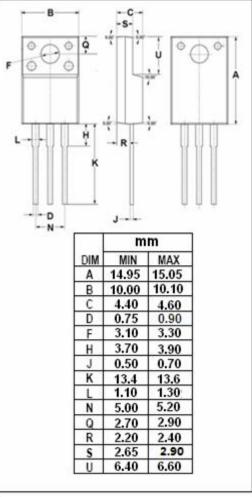


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	850	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	8	А
I _{DM}	Drain Current-Single Pulsed	16	А
P _D	Total Dissipation @Tc=25°C	33	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	3.78	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	850			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	3		5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 4A			850	mΩ
I_{GSS}	Gate-Source Leakage Current	V_{GS} = ±30V; V_{DS} =0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	$V_{DS} = V_{DSS}$; $V_{GS} = 0V$			10	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C			750	
V _{SD}	Diode forward voltage	I _F = 8A; V _{GS} = 0V			1.4	V

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