

isc N-Channel MOSFET Transistor

IXFP34N65X2M

FEATURES

- Drain-source on-resistance:
 R_{DS}(on) ≤ 100mΩ@10V
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

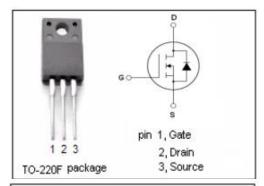
• High fast switching Power Supply

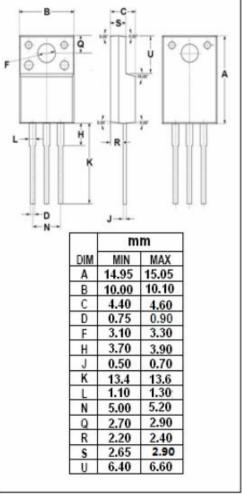
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±30	V
ΙD	Drain Current-Continuous	34	А
I _{DM}	Drain Current-Single Pulsed 68		А
P_D	Total Dissipation @T _C =25°C	40	W
Tj	Max. Operating Junction Temperature 150		${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.125	°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 = 250 μ A	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250 μ A	3.5		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =17A			100	mΩ
Igss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			10	μА
V _{SD}	Diode forward on voltage	I _S =34A, V _{GS} = 0 V			1.4	V



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