

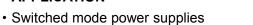
isc N-Channel MOSFET Transistor

IXTP12N65X2

FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 650V(Min)
- Static drain-source on-resistance:
 R_{DS}(on) ≤ 300mΩ@V_{GS}=10V
- Fully characterized avalanche voltage and current
- 100% Avalanche Tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION



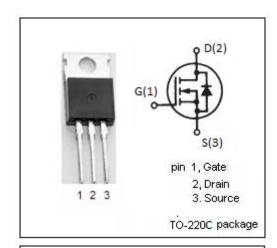
• DC-DC converters

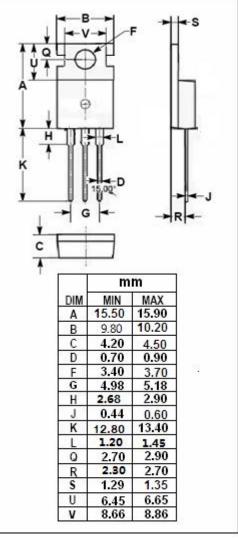
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	650	V
V _G s	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous 12		А
I _{DM}	Drain Current-Single Pulsed 24		А
P _D	Total Dissipation @T _c =25℃	Dissipation @T _C =25℃ 180	
Tj	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.69	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0V; ID = 250 μ A	650		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 250 μ A	2.5	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 6A		300	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		5	- μ А
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		50	
Vsp	Diode forward voltage	I _F = 12A; V _{GS} = 0V		1.4	V



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