

isc N-Channel MOSFET Transistor

IXTP7N60PM

FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 600V(Min)
- Static drain-source on-resistance
 - : R_{DS}(on) ≤ 1.1Ω@ V_{GS} =10V
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



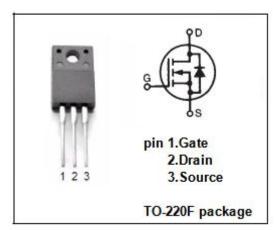
- DC/DC Converter
- · Ideal for high-frequency switching and synchronous rectification

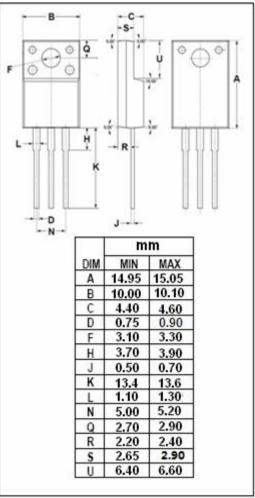
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±30	V	
ID	Drain Current-Continuous		А	
I _{DM}	Drain Current-Single Pulsed	14	Α	
P _D	Total Dissipation @T _C =25℃	41	W	
Tj	Operating Junction Temperature	on Temperature -55~150		
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Junction-to-case thermal resistance	3	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =250 μ A	600		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 = 3.5A		1.1	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V		5	- μ Α
		V _{DS} = 600V; V _{GS} = 0V;T _J =125°C		50	
Vsp	Diode forward voltage	I _F = 7A; V _{GS} = 0V		1.5	V



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