

isc N-Channel MOSFET Transistor

IXTV30N60P

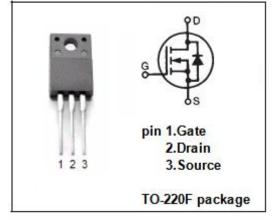
• FEATURES

- · With TO-3PN packaging
- · With low gate drive requirements
- · Easy to drive
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

Switching applications

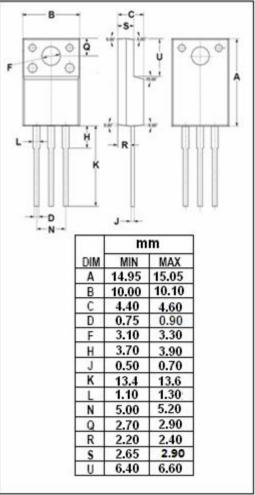


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	30	А	
I _{DM}	Drain Current-Single Pulsed	80	А	
P _D	Total Dissipation	540	W	
Tj	Operating Junction Temperature -55~150		$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}\!$	
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• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.23	°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	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.25mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =15A			240	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V@Tc=25℃ Tc=125℃			25 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =30A, V _{GS} = 0 V			1.5	V

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