

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTA62N15P

FEATURES

- Static drain-source on-resistance: R_Ds(on) ≤ 40mΩ
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

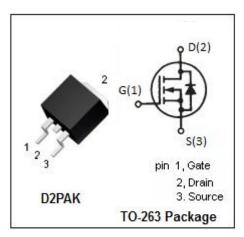
APPLICATION

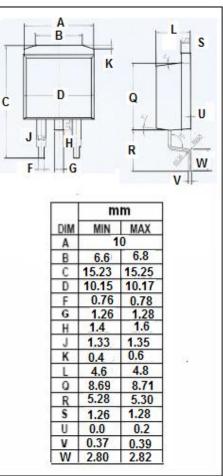
- DC/DC Converter
- · Ideal for high-frequency switching and synchronous rectification

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

in-Source Voltage e-Source Voltage in Current-Continuous	150 ±20	V V
		V
in Current-Continuous	62	
	62	
in Current-Single Pulsed	150	А
al Dissipation @Tc=25°C	350	W
erating Junction Temperature	-55~175	°C
rage Temperature	-55~150	°C
	al Dissipation @Tc=25°C erating Junction Temperature rage Temperature	al Dissipation @T _c =25°C 350 erating Junction Temperature -55~175

• THERMAL CHARACTERISTICS SYMBOL PARAMETER MAX UNIT R_{th(j-c)} Junction-to-case thermal resistance 0.43 °C/W







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =250 μ A	150		V
$V_{\text{GS}(\text{th})}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	3.0	5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 31A		40	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±100	nA
1	Drain Source Lookage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		25	μ Α
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V;TJ=150℃		250	μų
V _{SD}	Diode forward voltage	I _F = 62A; V _{GS} = 0V		1.5	V

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