

isc N-Channel MOSFET Transistor

IXTK90N15

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 150V(Min)
- Static drain-source on-resistance
 - : RDS(on) \leq 16m Ω @V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION



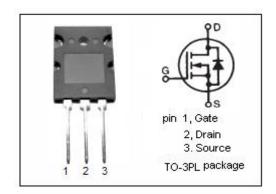


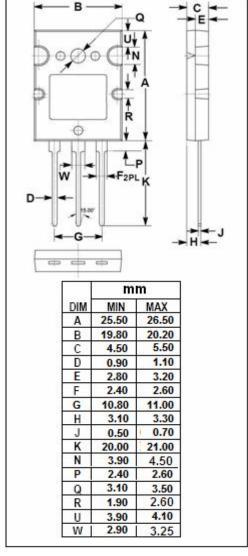
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	90	А
Ірм	Drain Current-Single Pulsed	360	А
P _D	Total Dissipation @T _C =25℃	390	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th(j-c)}}$	Junction-to-case thermal resistance	0.3	°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 = 1mA	150		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 250 μ A	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 45A		16	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		50	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		2000	
Vsp	Diode forward voltage	I _F = 90A; V _{GS} = 0V		1.5	V



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