

isc N-Channel MOSFET Transistor

IXFK360N10T

• FEATURES

- · Drain Source Voltage-
 - : V_{DSS}= 100V(Min)
- · Static Drain-Source On-Resistance
- : $R_{DS(on)} = 2.9 \text{m} \Omega \text{ (Max)@V}_{GS} = 10 \text{V}$
- Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

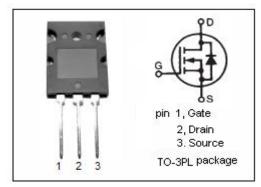
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives

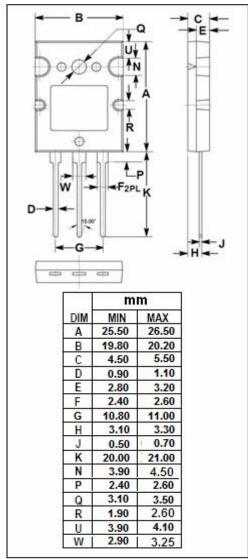
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous	360	Α
I _{DM}	Drain Current-Single Plused		Α
P _D	Total Dissipation @T _C =25°C 12		W
Tj	Max. Operating Junction Temperature	unction Temperature -55~175	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.12	°C/W	







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• ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT		
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	100			V		
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D =3mA	2.5		4.5	V		
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 100A			2.9	mΩ		
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±200	nA		
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =100V; V _{GS} = 0 V _{DS} =100V; V _{GS} = 0;T _J =150°C			25 2500	μΑ		
V_{SD}	Diode Forward On-voltage	I _F = 100A ;V _{GS} = 0			1.2	V		

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