

isc N-Channel MOSFET Transistor

IXTP64N055T

FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 13m\Omega@V_{GS}=10V$
- Fully characterized avalanche voltage and current
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



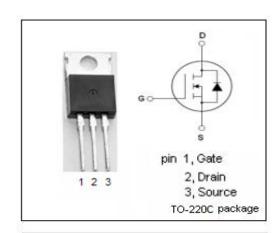
- DC/DC Converters
- · High Current Switching Applications

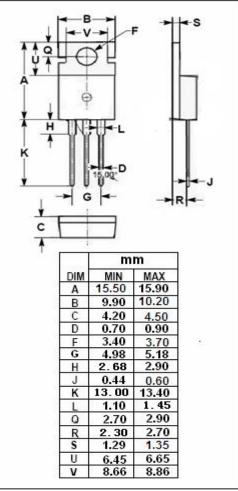
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	rain-Source Voltage 55		
V _{GS}	Gate-Source Voltage	±20	V	
I _D	rain Current-Continuous 64		А	
I _{DM}	Drain Current-Single Pulsed	170	А	
P _D	Total Dissipation @T _C =25°C 130		W	
Tj	Operating Junction Temperature	-55~175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th(j-c)}	Junction-to-case thermal resistance	1.15	°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 = 250 μ A	55		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 25 μ A	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 32A		13	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		1	μ Α
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		100	
Vsp	Diode forward voltage	I _F = 25A; V _{GS} = 0V		1.2	V



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