

isc N-Channel MOSFET Transistor

IXTC26N50P

pin 1.Gate

C

2.Drain

3. Source

TO-220F package

А

• FEATURES

- Drain Source Voltage-
- : V_{DSS}= 500V(Min)
- Static drain-source on-resistance : $R_{DS}(on) \le 260m\Omega@V_{GS}=10V$
- 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

SYMBOL PARAMETER VALUE UNIT VDSS Drain-Source Voltage 500 V Gate-Source Voltage ± 20 V_{GS} V **Drain Current-Continuous** 13 ΙD А Drain Current-Single Pulsed 78 **I**DM А Total Dissipation @T_C=25℃ \mathbf{P}_{D} 100 W °C Τį **Operating Junction Temperature** -55~150 Storage Temperature -55~150 °C Tstg THERMAL CHARACTERISTICS

PARAMETER

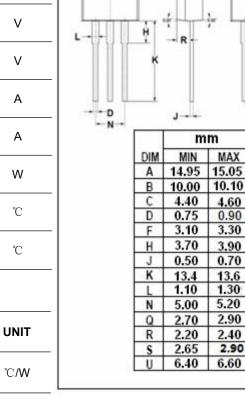
Junction-to-case thermal resistance

MAX

1.25

1

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



123

SYMBOL

Rth(j-c)



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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	500		V
$V_{\text{GS}(\text{th})}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2.5	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 13A		260	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V		25	- μ Α
		V _{DS} = 500V; V _{GS} = 0V;T _J =125℃		250	
V _{SD}	Diode forward voltage	I _F = 26A; V _{GS} = 0V		1.5	V

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