

isc N-Channel MOSFET Transistor

IXKC13N80C

• FEATURES

- · High power dissipation
- Static drain-source on-resistance:
 R_{DS}(on) ≤ 290mΩ@V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

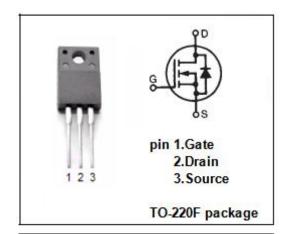
- DC/DC Converters
- High Current Switching Applications

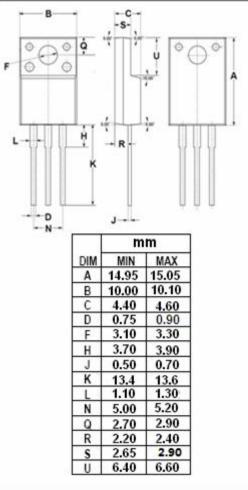


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	800	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	13	А	
Ірм	Drain Current-Single Pulsed	9	А	
Tj	Operating Junction Temperature	-55~150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~125	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
$R_{\text{th(j-c)}}$	Junction-to-case thermal resistance	1	°C/W	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 100 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 9A			290	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = ±20V; V_{DS} =0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	$V_{DS} = V_{DSS}$; $V_{GS} = 0V$			25	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125 °C		125		
V _{SD}	Diode forward voltage	I _F = 6.5A; V _{GS} = 0V			1.2	V

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