

isc N-Channel MOSFET Transistor

FCPF400N80ZCN

FEATURES

- Drain-source on-resistance:
 R_{DS}(on) ≤ 0.4Ω@10V
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



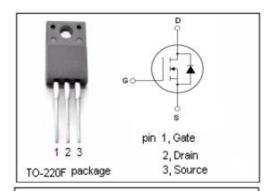
- AC-DC Power Supply
- LED Lighting

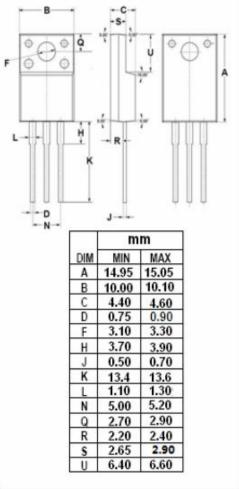


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	800	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	14	А	
I _{DM}	Drain Current-Single Pulsed 33		А	
P _D	Total Dissipation @T _C =25°C	36	W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}\!\mathbb{C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.47	°C/W	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1.1mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =5.5A			0.4	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =800V; V _{GS} = 0V			25	- μ Α
		V _{DS} =640V; V _{GS} = 0V;T _j =125°C			250	
V _{SD}	Diode forward on voltage	I _{SD} =11A, V _{GS} = 0 V			1.2	V

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