

isc N-Channel MOSFET Transistor

FQPF7N80C

FEATURES

- Drain-source on-resistance: RDs(on) ≤ 1.9 Ω @10V
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• High efficiency switch mode power supplies.

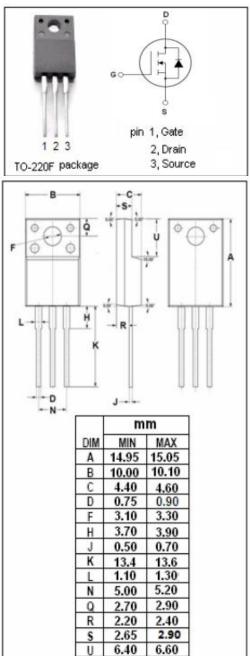
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	800	V	
V _{GS}	Gate-Source Voltage	±30	V	
ID	Drain Current-Continuous	6.6	А	
I _{DM}	Drain Current-Single Pulsed	26.4	А	
P _D	Total Dissipation @T _C =25°C	56	W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Juction-to-case thermal resistance	2.23	°C/W

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0V; I _D = 250 μ A	800			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250 μ A	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3.3A			1.9	Ω
lgss	Gate-Source Leakage Current	V_{GS} = ±30V; V_{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 800V; V _{GS} = 0V			10	μA
Vsd	Diode forward on voltage	Is = 6.6A, V _{GS} = 0 V			1.4	V



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