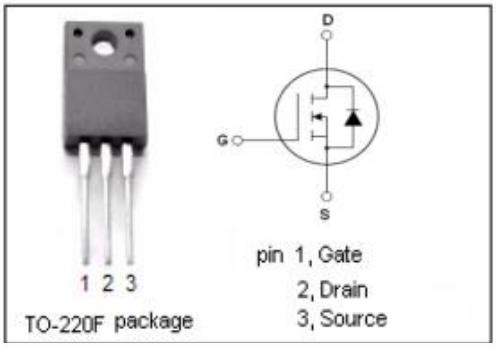
isc N-Channel MOSFET Transistor FQPF7N80C



• FEATURES

- Drain-source on-resistance:
  $R_{DS}(on) \leq 1.9\Omega$ @10V
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

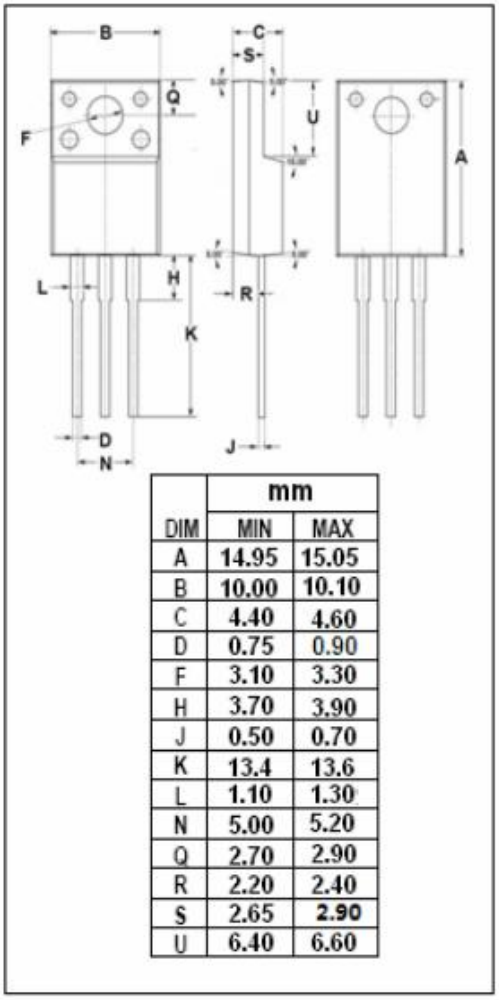
- High efficiency switch mode power supplies.

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	800	V
V_{GS}	Gate-Source Voltage	±30	V
I_D	Drain Current-Continuous	6.6	A
I_{DM}	Drain Current-Single Pulsed	26.4	A
P_D	Total Dissipation @T_C=25℃	56	W
T_j	Operating Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature	-55~150	℃

• THERMAL CHARACTERISTICS

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



DIM	mm MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	V_{GS}= 0V; I_D= 250 μA	800			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D= 250 μA	3		5	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}=10V; I_D=3.3A			1.9	Ω
I_{GSS}	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
V_{SD}	Diode forward on voltage	I_S = 6.6A, V_{GS} = 0 V			1.4	V