

isc N-Channel MOSFET Transistor

FCPF290N80

FEATURES

- Drain Current : I_D= 17A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 800V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.29 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



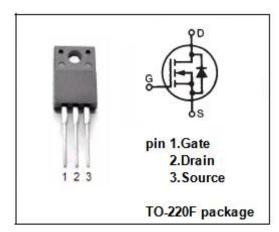
 motor drive, DC-DC converter, power switch and solenoid drive.

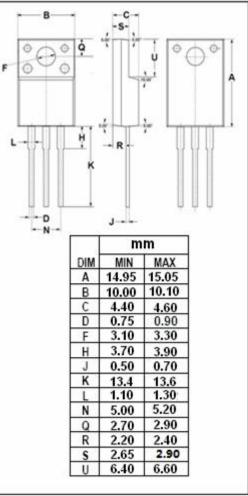
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous;@Tc=25℃	17	А
I _{DM}	Drain Current-Single Pulsed	42	А
P _D	Total Dissipation	40	W
T _j	Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature -55^		$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.13	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=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 = 1.7mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 8.5A			0.29	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 800V; V _{GS} = 0V			25	uA
V _{SD}	Diode forward voltage	I _{SD} = 17A, V _{GS} = 0 V			1.2	V

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