

isc N-Channel MOSFET Transistor

FCP260N65S3

• FEATURES

- Drain Source Voltage-
- : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 260m Ω (Max)
- · Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

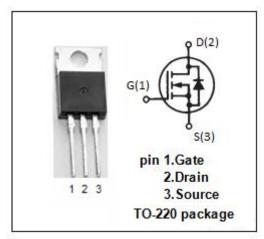
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives

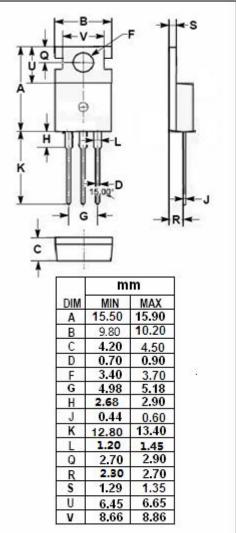


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	12	Α
I _{DM}	Drain Current-Single Plused	30	Α
P _D	Total Dissipation @T _C =25°C 90		W
Tj	Max. Operating Junction Temperature -55~150		${\mathbb C}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.39	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =250uA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250uA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6A			260	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =650V; V _{GS} = 0			1	μΑ
V _{SD}	Diode Forward On-voltage	I _F = 6A;V _{GS} = 0			1.2	V

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