

isc N-Channel MOSFET Transistor

FCPF099N65S3

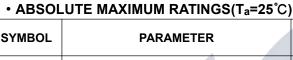
• FEATURES

- · With TO-220 packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

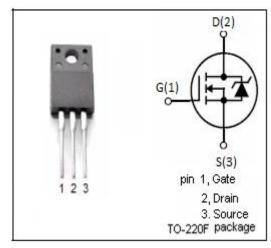
- Power supply
- · Switching applications

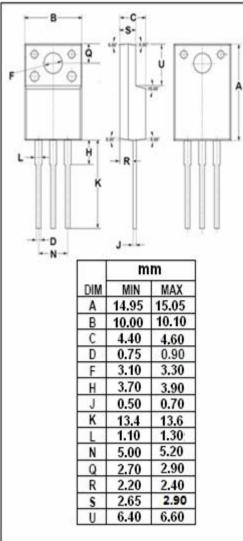


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	650	V	
V_{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous;@Tc=25°C Tc=100°C	30 19	А	
I _{DM}	Drain Current-Single Pulsed	75	А	
P _D	Total Dissipation	43	W	
Tj	Operating Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.94	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°C/W	





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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 = 1.0mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =3.0mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =15A		85	99	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm30V;V_{DS}$ = $0V$			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V			1	μА
V _{SDF}	Diode forward voltage	I _{SD} =15A, V _{GS} = 0 V			1.2	V



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