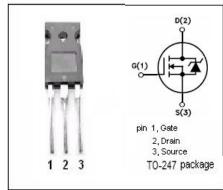


isc N-Channel MOSFET Transistor

FCH072N60F

FEATURES

- · With TO-247 packaging
- With low gate drive requirements
- · Easy to drive
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications



• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous@Tc=25℃ Tc=100℃	52 33	А	
I _{DM}	Drain Current-Single Pulsed	156	Α	
P _D	Total Dissipation	481	W	
T _j	Operating Junction Temperature	-55~150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

mm DIM MIN MAX 19.80 20.20 15.40 15.80 C 4.90 D 0.90 E 1.40 F 1.90 2.10 G 10.80 11.00 2.40 H 2.60 J 0.50 0.70 K 19.50 20.50 3.90 Q 3.30 U 5.20 5.40 2.90

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.26	°C/W



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =26A		65	72	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 480V; V _{GS} = 0V;@Tc=25°C Tc=125°C			1 10	μА
V _{SDF}	Diode forward voltage	I _{SD} =26A, V _{GS} = 0 V			1.2	V

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