

isc N-Channel MOSFET Transistor

FCH104N60

FEATURES

- · With TO-247 packaging
- · Drain Source Voltage-
 - : V_{DSS} ≥ 600V
- Static drain-source on-resistance:
 R_{DS}(on) ≤ 104mΩ@V_{GS}=10V
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



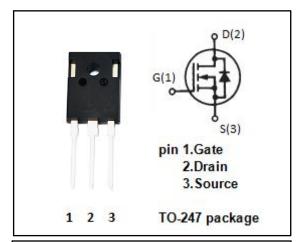
- · Power supply
- · Switching applications

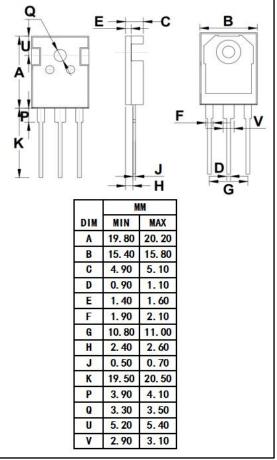
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous;@Tc=25℃	37	A
I _{DM}	Drain Current-Single Pulsed	111	А
P _D	Total Dissipation	357	W
T _j	Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.35	°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 = 250uA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =250uA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 18.5A			104	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm 20V; V_{DS}$ = $0V$			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			1	μА
V _{SDF}	Diode forward voltage	I _{SD} = 18.5A, V _{GS} = 0 V			1.2	V

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