

isc N-Channel MOSFET Transistor

FCH47N60

FEATURES

- Drain Current : I_D= 47A@ T_C=25℃
- Drain Source Voltage
- : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 70m Ω (Max) @ V_{GS} = 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

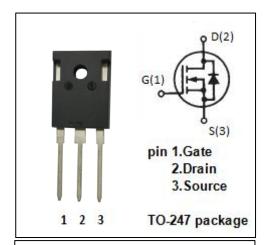
 motor drive, DC-DC converter, power switch and solenoid drive.

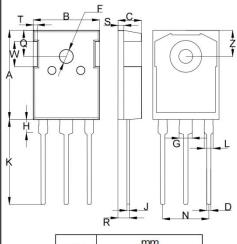
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	47	А
І _{ОМ}	Drain Current-Single Pluse	140	А
P _D	Total Dissipation @T _C =25℃	417	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.3	°C/W





DIM	111111	
DIM	MIN	MAX
Α	19.80	21.50
В	15.40	15.90
С	4.70	5.30
D	0.90	1.26
F	3.50	3.90
G	2.70	3.30
Н	3.90	4.10
J	0.500	0.700
K	19.50	20.50
L	1.90	2.20
N	10.80	11.00
Q	6.00	6.30
R	2.90	3.30
S	1.80	2.20
T	2.15	2.35
W	4.90	5.10
Z	6.00	6.30



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	3	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 23.5A		70	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		1	uA
V _{SD}	Forward On-Voltage	I _S = 47A; V _{GS} = 0		1.4	V

NOTICE:

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