

isc N-Channel MOSFET Transistor

FMH47N60S1FD

• FEATURES

- With TO-3PN packaging
- · High speed switching
- 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

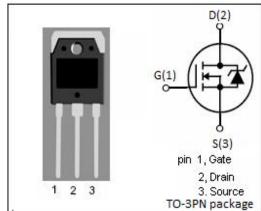


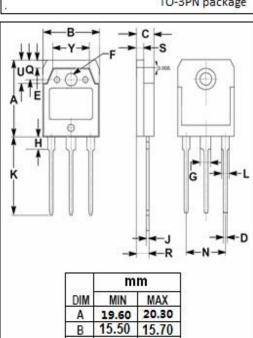
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	۸v
I _D	Drain Current-Continuous@Tc=25℃ Tc=100℃	47 29.7	А
I _{DM}	Drain Current-Single Pulsed	141	А
P _D	Total Dissipation	390	W
Tj	Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C



SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.46	°C/W





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DIM	MIN	MAX
Α	19.60	20.30
В	15.50	15.70
С	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Υ	9.90	10.10

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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 =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =2mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =23.5A		62	74	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0;			25	μА
V _{SDF}	Diode forward voltage	I _{SD} =47A; V _{GS} = 0V			1.35	V

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