

isc N-Channel MOSFET Transistor

FS70SM-2

FEATURES

- ·Drain Current -I_D=70A@ T_C=25℃
- ·Drain Source Voltage -V_{DSS}=100V(Min)
- ·Static Drain-Source On-Resistance
- $-R_{DS(on)} = 20m\Omega(Max)$

DESCRIPTION

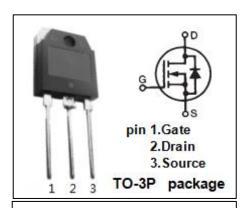
 Motor drive, DC-DC converter, power switch and solenoid drive.

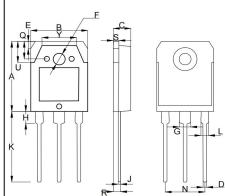
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	70	А
I _{DM}	Drain Current-Single Pluse	280	А
P _D	Total Dissipation @T _C =25℃	150	W
TJ	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.83	°C/W





DILL	mm		
DIM	MIN	TYP.	MAX
Α	19.70	19.95	20.20
В	15.45	15.60	15.75
C	4.70	4.80	4.90
D	0.90	1.00	1.10
E	1.80	2.00	2.20
F	3.40	3.50	3.60
G	2.95	3.10	3.25
Н	3.10	3.25	3.40
J	0.50	0.60	0.70
K	19.80	20.00	20.20
L	2.00	2.10	2.20
M	13.30	13.60	13.90
N	10.80	10.90	11.00
Q	4.25	4.68	5.10
R	1.75	2.03	2.30
S	1.40	1.50	1.60
U	5.90	6.05	6.20
Y	9.45	9.60	9.75



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ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2.0	3.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =35A		14	20	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =100V; V _{GS} = 0			0.1	mA
V _{SD}	Forward On-Voltage	I _S =35A; V _{GS} = 0		1.0	1.5	V

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