

isc N-Channel MOSFET Transistor

FS5UM-16A

FEATURES

- ·Drain Current -I_D=5A@ T_C=25 ℃
- ·Drain Source Voltage -V_{DSS}=800V(Min)
- ·Static Drain-Source On-Resistance
- $-R_{DS(on)} = 2.3\Omega(Max)$

DESCRIPTION

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

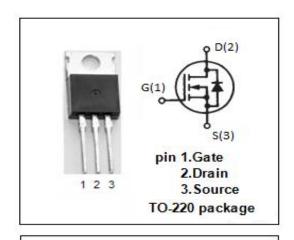
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

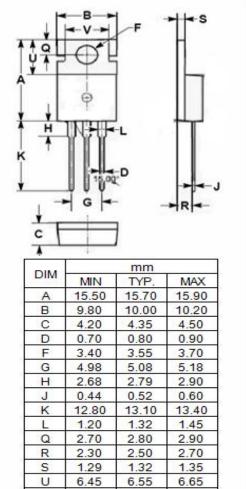
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	5	А
I _{DM}	Drain Current-Single Pluse	15	А
P _D	Total Dissipation @T _C =25℃	125	W
TJ	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W

1





8.66

8.76

8.86



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ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	800			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 =2A		1.76	2.30	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =800V; V _{GS} = 0			1	mA
V _{SD}	Forward On-Voltage	I _S =2A; V _{GS} = 0		1.0	1.5	V

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