

isc N-Channel MOSFET Transistor
FS5UM-5
FEATURES

- Drain Current $-I_D=5A@T_C=25^{\circ}C$
- Drain Source Voltage $-V_{DSS}=250V(\text{Min})$
- Static Drain-Source On-Resistance
 $-R_{DS(on)}=1.3\Omega(\text{Max})$

DESCRIPTION

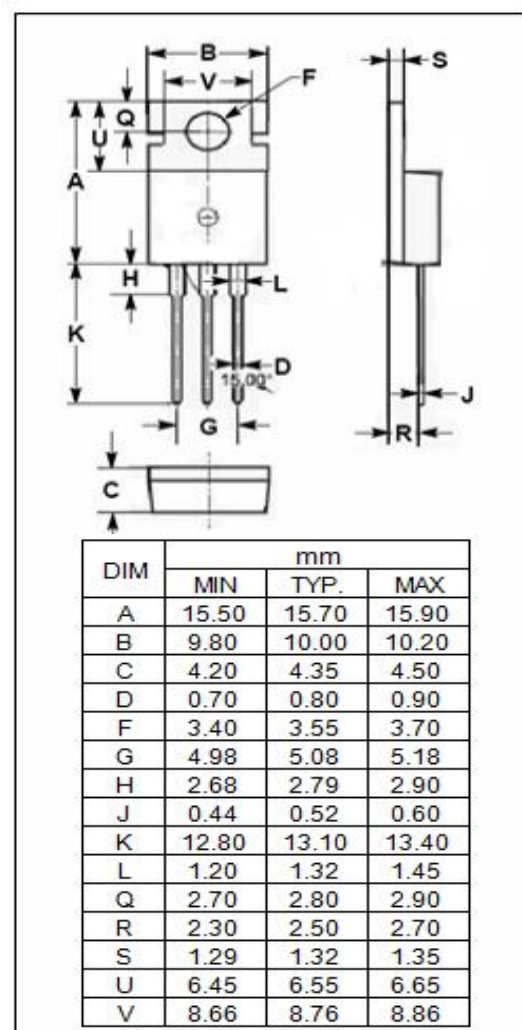
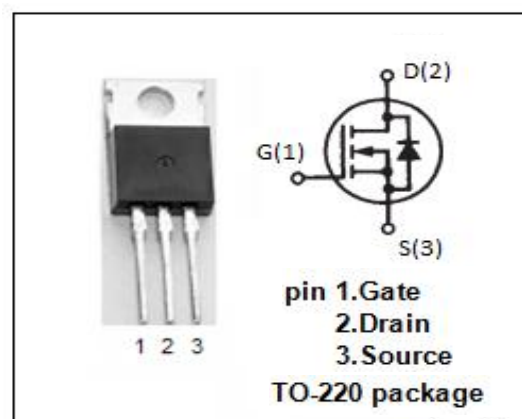
- Motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	250	V
V_{GS}	Gate-Source Voltage-Continuous	± 30	V
I_D	Drain Current-Continuous	5	A
I_{DM}	Drain Current-Single Pluse	15	A
P_D	Total Dissipation @ $T_C=25^{\circ}C$	60	W
T_J	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	2.08	$^{\circ}C/W$



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ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0; I_D=1\text{mA}$	250	--	--	V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=1\text{mA}$	2.0	3.0	4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}; I_D=2\text{A}$	--	1.0	1.3	Ω
I_{GSS}	Gate-Body Leakage Current	$V_{GS}= \pm 25\text{V}; V_{DS}=0$	--	--	± 10	mA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=250\text{V}; V_{GS}=0$	--	--	1	mA
V_{SD}	Forward On-Voltage	$I_S=2\text{A}; V_{GS}=0$	--	1.5	2.0	V

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