

isc N-Channel MOSFET Transistor

2SK1535

FEATURES

- Drain Current $-I_D = 3A @ T_C = 25^\circ C$
- Drain Source Voltage $-V_{DSS} = 900V (Min)$
- Static Drain-Source On-Resistance
 $-R_{DS(on)} = 5\Omega (Max) @ V_{GS} = 10V$

DESCRIPTION

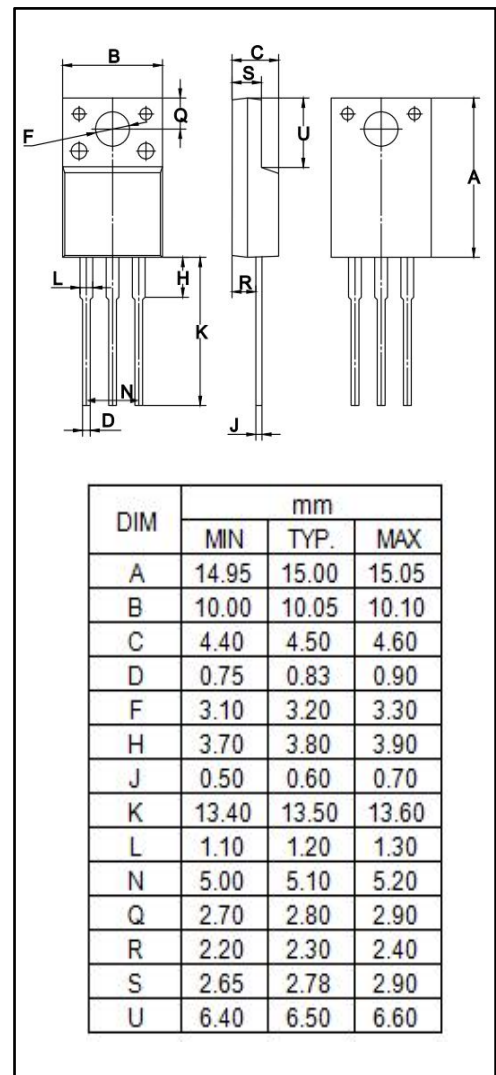
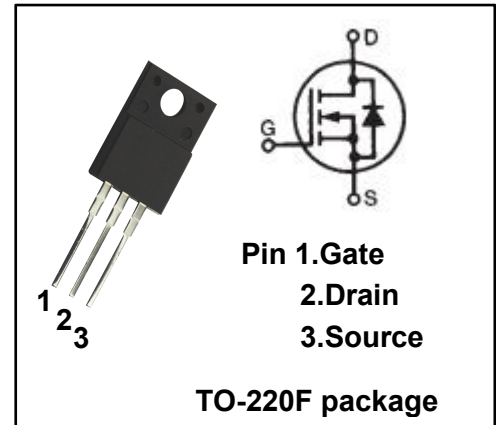
- Motor drive, DC-DC converter, power switch and solenoid drive.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	900	V
V_{GS}	Gate-Source Voltage-Continuous	± 30	V
I_D	Drain Current-Continuous	3	A
I_{DM}	Drain Current-Single Pulse	12	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	30	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	4.17	$^\circ C/W$



isc N-Channel MOSFET Transistor**2SK1535****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	$V_{GS}=0$; $I_D=1\text{mA}$	900	--	--	V
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=900\text{V}$; $V_{GS}=0\text{V}$	--	--	10	μA
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 30\text{V}$; $V_{DS}=0\text{V}$	--	--	± 1	μA
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=1\text{mA}$	2.0	--	4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}$; $I_D=1.5\text{A}$	--	--	5	Ω
V_{SD}	Forward On-Voltage	$I_S=3\text{A}$; $V_{GS}=0\text{V}$	--	--	1.50	V

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