

isc N-Channel MOSFET Transistor

2SK3563

FEATURES

- Drain Current : I_D= 5A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.5 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

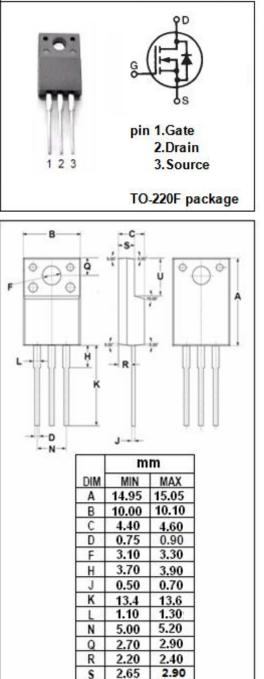
DESCRIPTION

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	500	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	5	A			
I _{DM}	Drain Current-Single Pluse	20	А			
PD	Total Dissipation @Tc=25℃	35	W			
TJ	Max. Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.57	°C/W



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	500		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2	4	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		1.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		0.1	mA
V _{SD}	Forward On-Voltage	I _S = 5A; V _{GS} = 0		1.7	V

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