

isc N-Channel MOSFET Transistor

2SK3913-01MR

FEATURES

- Drain Current : I_D= 14A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 250V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.28 \Omega (Max) @V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

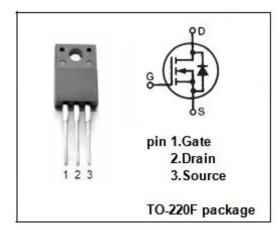
 motor drive, DC-DC converter, power switch and solenoid drive.

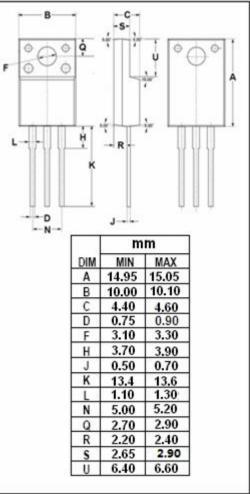
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage 250			
V _{GS}	Gate-Source Voltage-Continuous ±30		V	
I _D	Drain Current-Continuous 14		А	
I _{DM}	Drain Current-Single Pluse 56		А	
P_D	Total Dissipation @Tc=25℃ 37		W	
TJ	Max. Operating Junction Temperature	perature -55~150		
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.378	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	250		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 7A		0.28	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 250V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 14A; V _{GS} = 0		1.5	V



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