isc N-Channel MOSFET Transistor

2SK3935

FEATURES

- Drain Current : ID= 17A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 450V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 250 \text{m} \Omega \text{ (Max) @V_{GS}} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

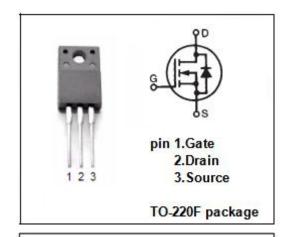
 motor drive, DC-DC converter, power switch and solenoid drive.

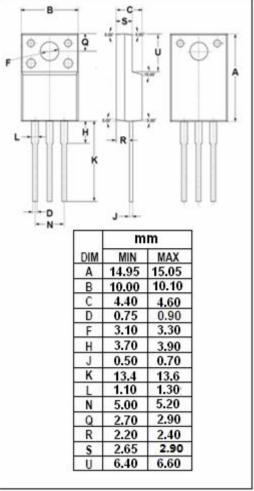
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	450	V
V _{GS}	Gate-Source Voltage-Continuous ±3		V
I _D	Drain Current-Continuous	17	А
I _{DM}	Drain Current-Single Pluse	68	А
P _D	Total Dissipation @T _C =25℃ 50		W
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°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 = 10mA	450		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 8.5A		250	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 450V; V _{GS} = 0	-	100	uA
V _{SD}	Forward On-Voltage	I _S = 17A; V _{GS} = 0		1.7	V

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