

isc N-Channel MOSFET Transistor

2SK3979-I

FEATURES

- Drain Current : I_D= 4A@ T_C=25℃
- Drain Source Voltage : V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 550m Ω (Max) @V_{GS}=10V
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

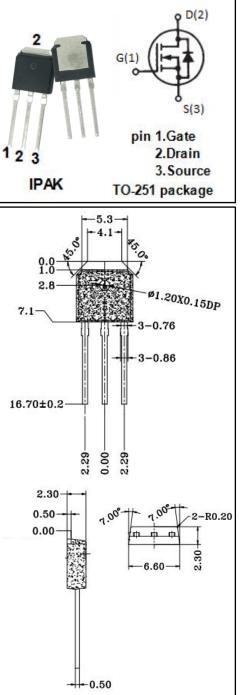
DESCRIPTION

· 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	200	V					
V _{GS}	Sate-Source Voltage-Continuous ±20		V					
ID	Drain Current-Continuous	6.0	A					
I _{DM}	Drain Current-Single Pluse	24	A					
P _D	Total Dissipation @Tc=25℃	20	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	6.25	°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 = 1mA	200		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.0	3.2	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3A		450	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 200V; V _{GS} = 0		1.0	uA
V _{SD}	Forward On-Voltage	I _S = 6A; V _{GS} = 0		1.2	V

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