

isc N-Channel MOSFET Transistor

2SK375L

FEATURES

- Drain Current : I_D= 1.0A@ T_C=25℃
- Drain Source Voltage : V_{DSS}= 300V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 4.0 Ω (Max) @ V_{GS}= 15V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

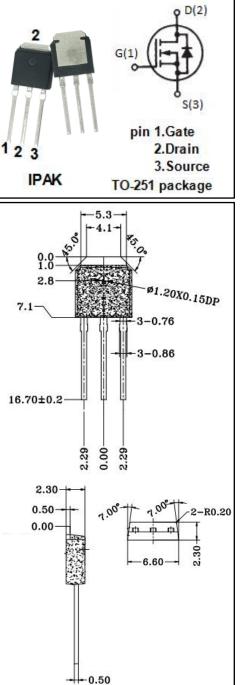
· motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	300	V				
V _{GS}	Gate-Source Voltage-Continuous	±20	V				
ID	Drain Current-Continuous	1.0	A				
I _{DM}	Drain Current-Single Pluse	2.0	A				
P _D	Total Dissipation @Tc=25℃	10	W				
TJ	Max. Operating Junction Temperature	-55~150	°C				
T _{stg}	Storage Temperature	-55~150	°C				
I _{DM} Ро ТJ	Drain Current-Single Pluse Total Dissipation @Tc=25°C Max. Operating Junction Temperature	2.0 10 -55~150	A W °C				

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	12.5	°C/W





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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	300		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.0	5.0	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 15V; I _D = 1.0A		4.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±1.0	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 240V; V _{GS} = 0		1.0	mA
V _{SD}	Forward On-Voltage	I _S = 1.0A; V _{GS} = 0		1.5	V

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