2SK4017



isc N-Channel MOSFET Transistor

FEATURES

- Drain Current : I_D= 5.0A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 60V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.1 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

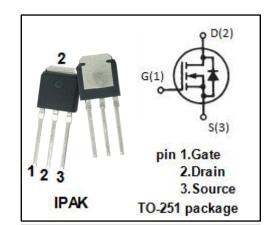
· motor drive, DC-DC converter, power switch and solenoid drive.

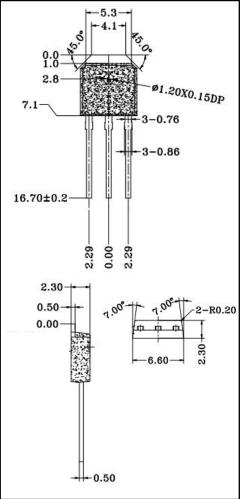
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	5.0	А
I _{DM}	Drain Current-Single Pluse	20	А
P _D	Total Dissipation @T _C =25℃ 20		W
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature	Temperature -55~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1.3	2.5	V
R _{DS(on)1}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A V _{GS} = 4V; I _D = 2.5A		0.1 0.15	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		0.1	mA
V _{SD}	Forward On-Voltage	I _S = 5A; V _{GS} = 0		1.7	V

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