

isc N-Channel MOSFET Transistor

2SK3617I

FEATURES

- Drain Current : I_D= 6A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 100V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 225m Ω (Max) Q V_{GS} = 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

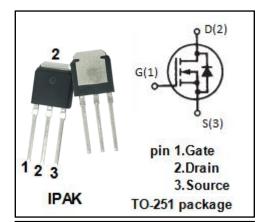
 motor drive, DC-DC converter, power switch and solenoid drive.

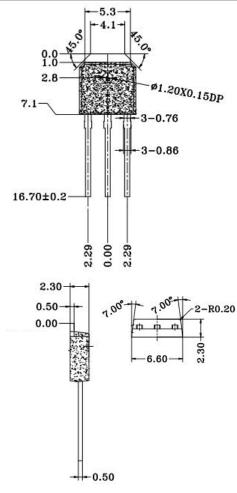
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage 100		V
V _{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous 6		А
I _{DM}	Drain Current-Single Pluse 24		А
P _D	Total Dissipation @T _C =25℃ 15		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	8.33	°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 = 1mA	100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1.2	2.6	V
R _{DS(on)1}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3A		225	m Ω
R _{DS(on)2}	Drain-Source On-Resistance	V _{GS} = 4V; I _D = 3A		315	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0		1	uA
V _{SD}	Forward On-Voltage	I _S = 6A; V _{GS} = 0		1.2	V

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