

isc N-Channel MOSFET Transistor

2SK3618I

FEATURES

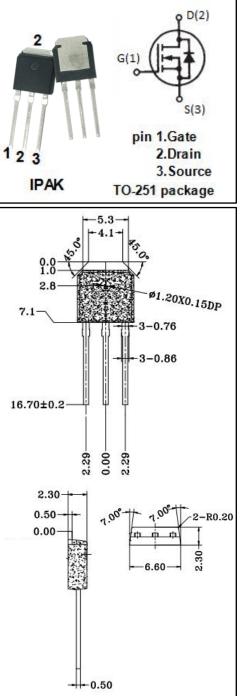
- Drain Current : I_D= 8A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 130m Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	100	V					
V _{GS}	Gate-Source Voltage-Continuous	±20	V					
ID	Drain Current-Continuous	8	A					
I _{DM}	Drain Current-Single Pluse	32	А					
P _D	Total Dissipation @Tc=25℃	20	W					
TJ	Max. Operating Junction Temperature	-55~150	°C					
T _{stg}	Storage Temperature	-55~150	°C					

THERMA	ERMAL 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	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 = 4A		130	mΩ
R _{DS(on)2}	Drain-Source On-Resistance	V _{GS} = 4V; I _D = 4A		180	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0		1	uA
V _{SD}	Forward On-Voltage	I _S = 8A; V _{GS} = 0		1.2	V

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