

isc N-Channel MOSFET Transistor

2SK2342

FEATURES

- Drain Current -I_D=2A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=30V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.26 \Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

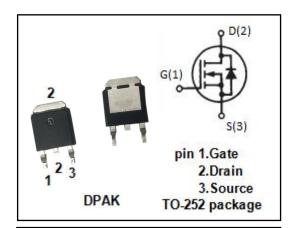
 motor drive, DC-DC converter, power switch and solenoid drive.

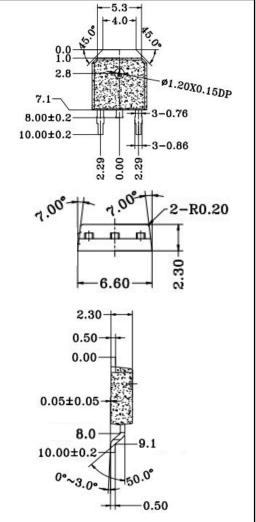
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage 30		V
V _{GS}	Gate-Source Voltage-Continuous ±15		V
I _D	Drain Current-Continuous ±2		А
I _{DM}	Drain Current-Single Pluse	±8	А
P _D	Total Dissipation @TC=25℃	Dissipation @TC=25℃ 10	
TJ	Max. Operating Junction Temperature	mperature 150	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°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 = 1mA	25		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =6A		0.26	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±15V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =25V; V _{GS} = 0	1	10	uA

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