

isc N-Channel MOSFET Transistor

2SK4213A

FEATURES

- Drain Current : I_D= 64A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 30V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 6.0 \text{m} \Omega \text{ (Max)} @ V_{GS} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

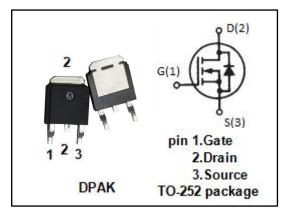
 motor drive, DC-DC converter, power switch and solenoid drive.

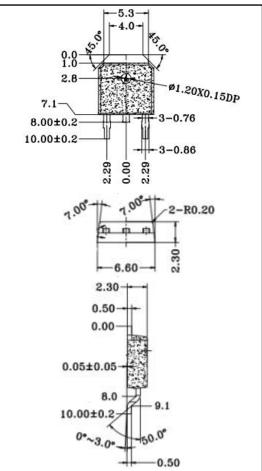
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	ain-Source Voltage 30	
V _{GS}	Gate-Source Voltage-Continuous	oltage-Continuous ±20	
I _D	Drain Current-Continuous 64		А
I _{DM}	Drain Current-Single Pluse 175		А
P_D	Total Dissipation @T _C =25℃	45	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	2.78	°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 = 0.25mA	30		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	1.0	3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 30A V _{GS} = 4.5V; I _D = 20A		6.0 9.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 30A; V _{GS} = 0		1.5	V

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