

isc N-Channel MOSFET Transistor

2SK3272-01SJ

FEATURES

- Drain Current : I_D= 80A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage
 : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 6.5m Ω (Max) @VGS= 40V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

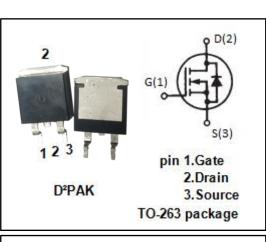
 motor drive, DC-DC converter, power switch and solenoid drive.

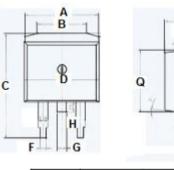
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

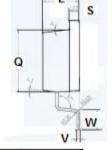
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage-Continuous	Voltage-Continuous ±30		
ID	Drain Current-Continuous 80		A	
I _{DM}	Drain Current-Single Pluse 320		A	
PD	Total Dissipation @Tc=25℃	135	W	
TJ	Max. Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150		

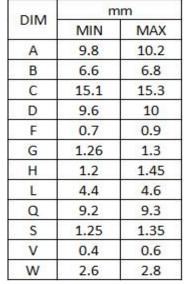
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.93	°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	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.5	2.5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 40V; I _D = 40A		6.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		0.1	mA
V _{SD}	Forward On-Voltage	I _S =80A; V _{GS} = 0		1.5	V

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