

isc N-Channel MOSFET Transistor

2SK3921-01S

FEATURES

- Drain Current : I_D= 67A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 120V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 30m Ω (Max) @V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

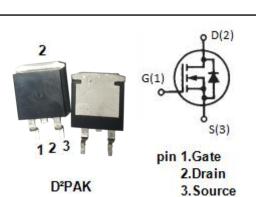
 motor drive, DC-DC converter, power switch and solenoid drive.

PARAMETER	VALUE	UNIT				
Drain-Source Voltage	120	V				
Gate-Source Voltage-Continuous	±30	V				
Drain Current-Continuous	67	A				
Drain Current-Single Pluse	268	A				
Total Dissipation @Tc=25℃	270	W				
Max. Operating Junction Temperature -55~150		°C				
Storage Temperature	-55~150	°C				
	PARAMETER Drain-Source Voltage Gate-Source Voltage-Continuous Drain Current-Continuous Drain Current-Single Pluse Total Dissipation @Tc=25°C Max. Operating Junction Temperature	PARAMETERVALUEDrain-Source Voltage120Gate-Source Voltage-Continuous±30Drain Current-Continuous67Drain Current-Single Pluse268Total Dissipation @Tc=25°C270Max. Operating Junction Temperature-55~150				

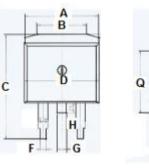
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

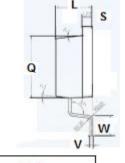
THERMAL CHARACTERISTICS

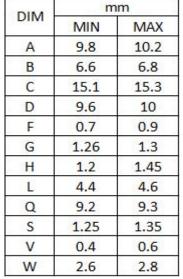
SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.463	°C/W	



TO-263 package









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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 = 0.25mA	120		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 33.5A		30	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} = 120V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 67A; V _{GS} = 0		1.5	V

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