

isc N-Channel MOSFET Transistor

2SK3889S

FEATURES

- Drain Current : ID= 9.0A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.0 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

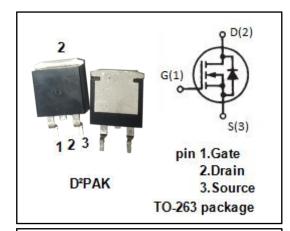
 motor drive, DC-DC converter, power switch and solenoid drive.

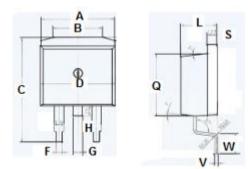
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	9.0	Α
I _{DM}	Drain Current-Single Pluse	36	А
P _D	Total Dissipation @Tc=25℃	165	W
TJ	Max. Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.36	°C/W





DIM	m	m
JIIVI	MIN	MAX
Α	9.8	10.2
В	6.6	6.8
C	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
Н	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
V	0.4	0.6
W	2.6	2.8



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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	600		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 = 4.5A		1.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 9A; V _{GS} = 0		1.5	V

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