

isc N-Channel MOSFET Transistor

2SK429S

FEATURES

- Drain Current : I_D= 3.0A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.7 Ω (Max) @ V_{GS}= 15V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

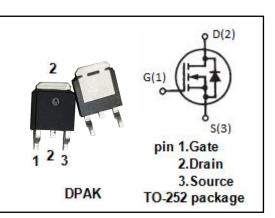
 motor drive, DC-DC converter, power switch and solenoid drive.

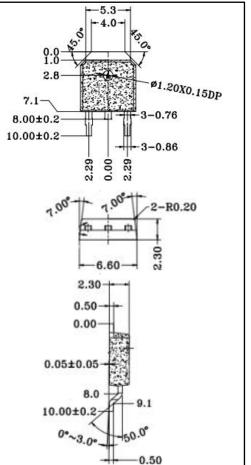
ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	100	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	3.0	A			
I _{DM}	Drain Current-Single Pluse 6.0		A			
PD	Total Dissipation @Tc=25°C 20		W			
TJ	Max. Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	6.25	°C/W





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	ΜΙΝ	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	1.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 15V; I _D = 2.0A		0.7	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} =0		±1.0	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 80V; V _{GS} = 0		1.0	mA
V _{SD}	Forward On-Voltage	I _S = 2.0A; V _{GS} = 0		1.5	V

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