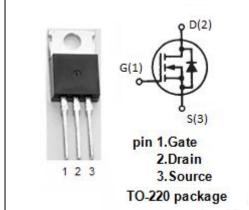


isc N-Channel MOSFET Transistor

2SK2927

FEATURES

- Drain Current –I_D= 10A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 60V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 75m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

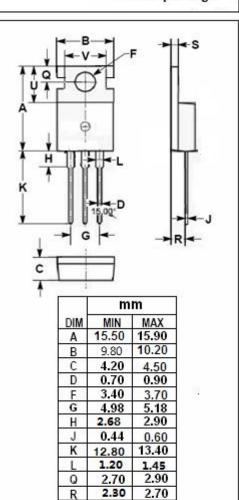
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	60	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
Ι _D	Drain Current-Continuous	10	Α			
I _{DM}	Drain Current-Single Pluse	40	А			
P _D	Total Dissipation @T _C =25°C	30	W			
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$			
T _{stg}	Storage Temperature		$^{\circ}$			

THERMAL CHARACTERISTICS

SYMBOL	YMBOL PARAMETER		UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.2	°C/W



1.29

6.45 8.66 1.35 6.65

S



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 1mA	1.5	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A		75	m Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		10	μA
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0		1.5	V

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