

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK2917

FEATURES

- With TO-3PN packaging
- · High speed switching
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

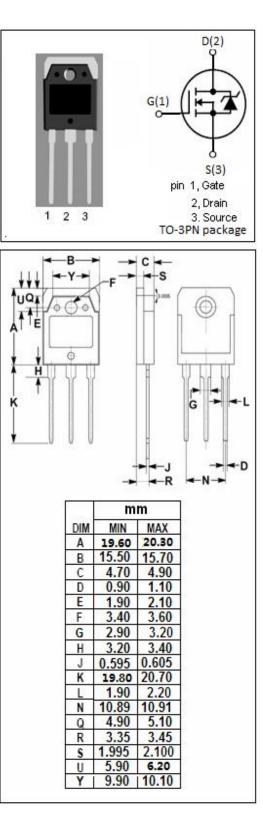
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V _{GSS}	Gate-Source Voltage		V	
ID	Drain Current-Continuous 18		А	
I _{DM}	Drain Current-Single Pulsed	72	А	
Po	Total Dissipation	90	W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.39	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	41.6	°C /W	

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ELECTRICAL CHARACTERISTICS

$T_{C}\text{=}25^{\circ}\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	500			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =10A		0.21	0.27	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±10	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V			100	μA
V _{SDF}	Diode forward voltage	I _{SD} =18A, V _{GS} = 0 V			2.0	v



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