

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

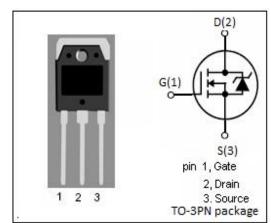
- Power supply
- · Switching applications

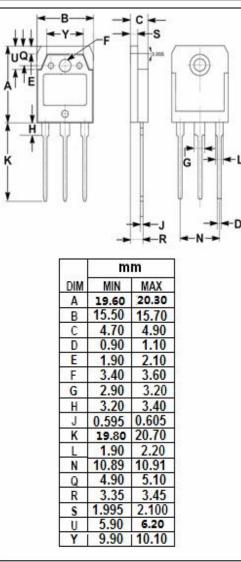


SYMBOL	PARAMETER	VALUE	
V _{DSS}	Drain-Source Voltage 50		V
V _{GSS}	Gate-Source Voltage ±30		V
I _D	Drain Current-Continuous 18		А
I _{DM}	Drain Current-Single Pulsed 72		А
P _D	Total Dissipation 90		W
Tj	Operating Junction Temperature -55~150		$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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







isc N-Channel MOSFET Transistor

2SK2917

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	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	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V			100	μА
V _{SDF}	Diode forward voltage	I _{SD} =18A, V _{GS} = 0 V			2.0	V



ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.