

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK627

FEATURES

- Drain Current $-I_D=20A@T_C=25\degreeC$
- Drain Source Voltage-
 - : V_{DSS}= 50V(Min)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

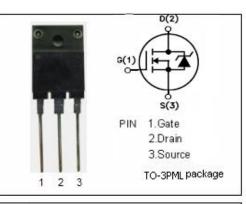
• Designed for low voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

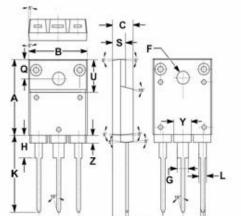
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	50	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	20	А
PD	Total Dissipation @Tc=25℃	80	W
TJ	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

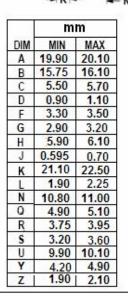
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.56	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W









isc N-Channel MOSFET Transistor

2SK627

ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
V(BR)DSS	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	50			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 1mA	1.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 15V; I _D = 10A			0.07	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 50V; V _{GS} =0			1	μA

NOTICE:

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.