

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK2837

FEATURES

- Drain Current
 - : I_D= 50A@ T_C=25℃
- · Drain Source Voltage-: V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 0.27 \Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

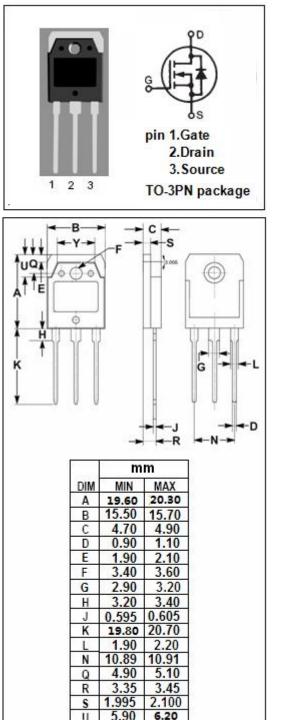
- DC/DC Converters
- DC/AC Inverters
- Motor Drives

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous	20	A
I _{DM}	Drain Current-Single Pluse	80	A
P _D	Total Dissipation @Tc=25℃ 150		W
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	ture -55~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	0.833	°C/W



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1.0mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A		0.27	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S = 20A; V _{GS} = 0		1.7	V

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