

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK1487

DESCRIPTION

- Drain Current –I_D= 10A@ T_C=25℃
- · Drain Source Voltage-: V_{DSS}= 450V(Min)
- · Fast Switching Speed
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

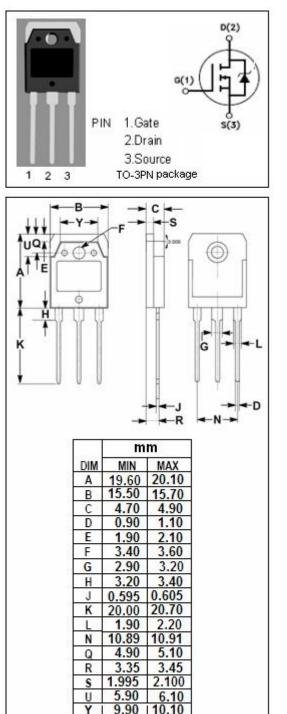
• Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	ARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	350	V				
V _{GS}	Gate-Source Voltage	±30	V				
ID	Drain Current-continuous@ TC=25°C	15	А				
P _{tot}	Total Dissipation@TC=25℃	100	W				
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-55~150	°C				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	1.0	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	50	°C/W

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	450			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =10 V _{GS} ; I _D =1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =5A		0.64	1.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =450V; V _{GS} = 0			300	uA
V_{SD}	Diode Forward Voltage	I _F =10A; V _{GS} =0			2.0	V
tr	Rise time	V _{GS} =10V;I _D =5A;R _L =40 Ω		45		ns
ton	Turn-on time			70		ns
tf	Fall time			65		ns
toff	Turn-off time			150		ns

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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