

isc N-Channel MOSFET Transistor

2SK867

DESCRIPTION

- Drain Current –I_D=15A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=400V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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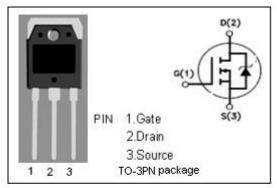
 Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

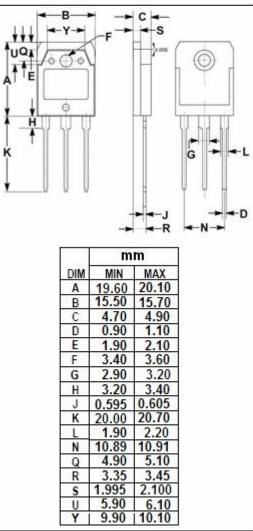
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-continuous@ TC=25℃	15	Α	
P _{tot}	Total Dissipation@TC=25℃	120	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}\!\mathbb{C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.67	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W







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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	400			V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} =0; I _D = 1mA	1.0		5.0	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D =8A		0.3	0.45	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =320V; V _{GS} = 0			0.1	mA
ton	Turn-on time	V _{GS} =10V;I _D =8A;		120		ns
toff	Turn-off time	R _L =19 Ω		460		ns



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