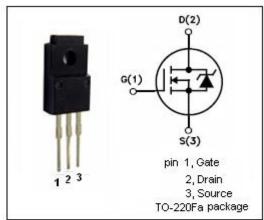


isc N-Channel MOSFET Transistor

2SK531

DESCRIPTION

- Drain Current –I_D=5A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=450V(Min)
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

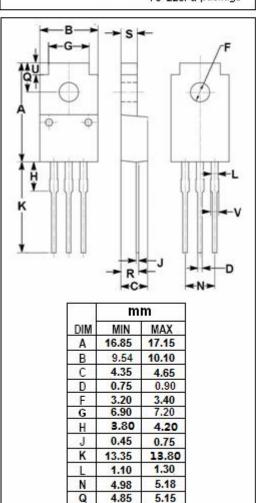


APPLICATIONS

 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	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	450	٧	
V _{GS}	Gate-Source Voltage	±20	٧	
Ι _D	Drain Current-continuous@ TC=25℃	5	Α	
P _{tot}	Total Dissipation@TC=25℃	40	W	
T _j	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	



2.55

2.70

1.75

1.30

3.25

2.90

2.05

1.50



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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	450			V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1.5		3.5	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D =3A		1.1	1.6	Ω
V _{DS(ON)}	Drain-Source Saturation Voltage	I _F = 8A; V _{GS} =10V		12	22	V
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =450V; V _{GS} = 0			1	mA

NOTICE:

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