

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK557

DESCRIPTION

- Drain Current –I_D=12A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}=500V(Min)
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

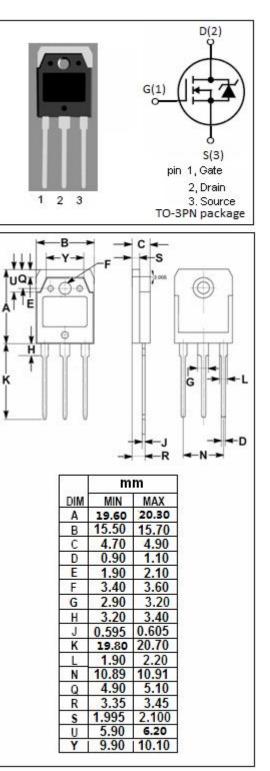
• Designed especially for high voltage, high speed applications, such as off-line switching power supplies , UPS, AC and DC motor controls, relay and solenoid drivers.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-continuous@ TC=25°C	12	А
P _{tot}	Total Dissipation@TC=25°C	100	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°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	500			v				
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.0		4.0	v				
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D =6A		0.45	0.60	Ω				
V _{SD}	Diode Forward Voltage	I _F = 12A; V _{GS} =0		1.0		V				
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±16V; V _{DS} = 0			±10	uA				
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0			250	uA				

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

NOTICE:

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