

## **INCHANGE SEMICONDUCTOR**

## isc N-Channel MOSFET Transistor

## 2SK385

### DESCRIPTION

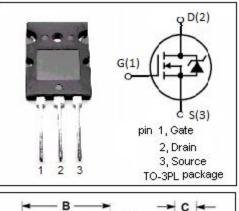
- Drain Current –I<sub>D</sub>=10A@ T<sub>C</sub>=25℃
- · Drain Source Voltage-: V<sub>DSS</sub>= 400V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

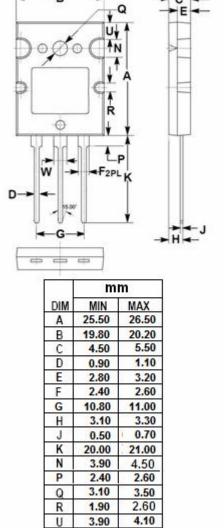
### **APPLICATIONS**

- · High voltage, high speed power Switching.
- ·Low leakage Current.

#### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage (V <sub>GS</sub> =0)	400	V
V <sub>GS</sub>	Gate-Source Voltage	±20	V
ID	Drain Current-continuous@ TC=25℃	10	A
P <sub>tot</sub>	Total Dissipation@TC=25℃	120	W
Tj	Max. Operating Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C





2.90

3.25

W



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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0; I <sub>D</sub> = 10mA	400			V
$V_{\text{GS(TH)}}$	Gate Threshold Voltage	V <sub>DS</sub> = 10V; I <sub>D</sub> = 1mA	1.5		3.5	V
R <sub>DS(ON)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 5A		0.45	0.60	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> = ±20V; V <sub>DS</sub> = 0			±100	nA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> =400V; V <sub>GS</sub> = 0			1	mA
$V_{\text{SD}}$	Diode Forward Voltage	I <sub>S</sub> =10A; V <sub>GS</sub> =10V			7	V

## • ELECTRICAL CHARACTERISTICS (Tc=25°C)

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