

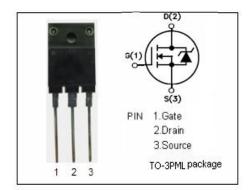
# isc N-Channel MOSFET Transistor

## 2SK751

#### **DESCRIPTION**

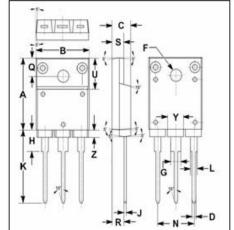
- Drain Current –I<sub>D</sub>= 20A@ T<sub>C</sub>=25 °C
- Drain Source Voltage-
  - : V<sub>DSS</sub>= 100V(Min)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



#### **APPLICATIONS**

· High speed power switching



#### SYMBOL **VALUE** ARAMETER UNIT $V_{DSS}$ Drain-Source Voltage (V<sub>GS</sub>=0) 100 ٧ $V_{\text{GS}}$ Gate-Source Voltage $\pm 20$ ٧ Drain Current-continuous@ TC=25℃ $I_{\mathsf{D}}$ 20 Α Total Dissipation@TC=25℃ 100 W Ptot $T_{i}$ Max. Operating Junction Temperature 150 $^{\circ}$ C Storage Temperature Range -55~150 $^{\circ}$ C $T_{stg}$

DIM	mm	
	MIN	MAX
Α	19.90	20.10
В	15.75	16.10
C	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Н	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10



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### • ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0; I <sub>D</sub> = 10mA	100			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =10 V <sub>GS</sub> ; I <sub>D</sub> =1mA	1.0		5.0	V
R <sub>DS(on)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> = 10A			0.08	Ω
Igss	Gate Source Leakage Current	V <sub>GS</sub> = ±16V;V <sub>DS</sub> = 0			±10	uA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> =80V; V <sub>GS</sub> = 0			250	uA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> =10A; V <sub>GS</sub> =0		1.2		V



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