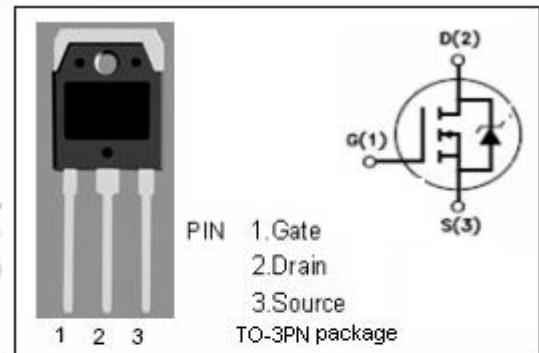


## isc N-Channel MOSFET Transistor

**2SK956**

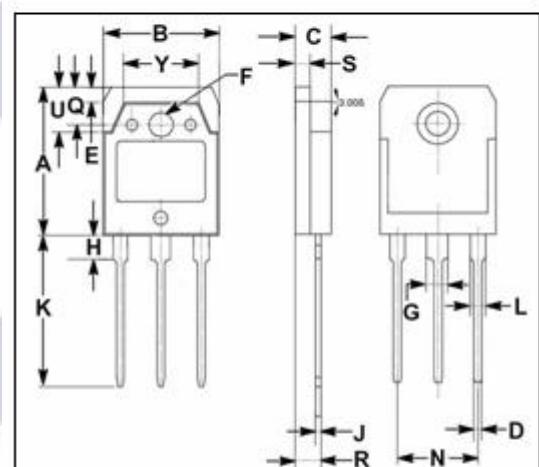
### DESCRIPTION

- Drain Current – $I_D=9A$ @  $T_C=25^\circ\text{C}$
- Drain Source Voltage-
  - :  $V_{DSS}=800\text{V}(\text{Min})$
- Fast Switching Speed
- 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( $T_a=25^\circ\text{C}$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage ( $V_{GS}=0$ )	800	V
$V_{GS}$	Gate-Source Voltage	$\pm 30$	V
$I_D$	Drain Current-continuous@ $T_C=25^\circ\text{C}$	9	A
$P_{tot}$	Total Dissipation@ $T_C=25^\circ\text{C}$	150	W
$T_j$	Max. Operating Junction Temperature	80	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$

DIM	mm	
	MIN	MAX
A	19.60	20.10
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	20.00	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.10
Y	9.90	10.10

**isc N-Channel Mosfet Transistor****2SK956****• ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$ )**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$(BR)DSS$	Drain-Source Breakdown Voltage	$V_{GS}=0$ ; $I_D=1\text{mA}$	800			V
$V_{GS(TH)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$ ; $I_D=1\text{mA}$	2.5	3.5	5.0	V
$R_{DS(ON)}$	Drain-Source On-stage Resistance	$V_{GS}=10\text{V}$ ; $I_D=4\text{A}$		1.0	1.5	$\Omega$
$I_{GSS}$	Gate Source Leakage Current	$V_{GS}=\pm 30\text{V}$ ; $V_{DS}=0$			$\pm 100$	nA
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS}=800\text{V}$ ; $V_{GS}=0$			500	uA
ton	Turn-on time	$V_{GS}=10\text{V}; I_D=9\text{A};$ $R_L=25\Omega$		280	425	ns
toff	Turn-off time			460	690	ns
$V_{SD}$	Diode Forward Voltage	$I_F=9\text{A}$ ; $V_{GS}=0$		1.05	1.58	V