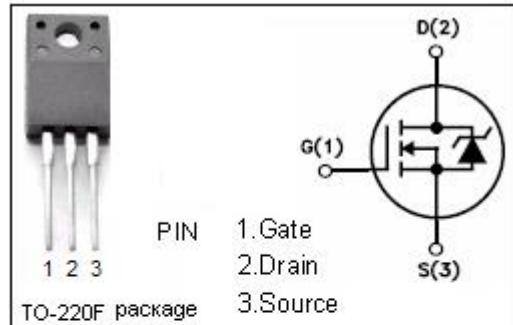


isc N-Channel MOSFET Transistor

2SK1356

DESCRIPTION

- Drain Current – $I_D=3A$ @ $T_C=25^\circ C$
- Drain Source Voltage-
 - : $V_{DSS}=900V$ (Min)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

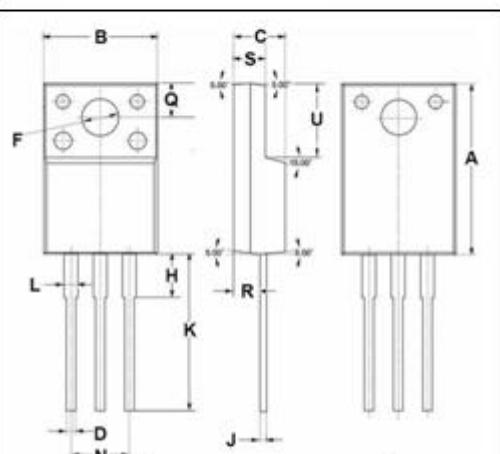
- Designed for high voltage, high speed power switching

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	900	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-continuous@ $TC=25^\circ C$	3	A
P_{tot}	Total Dissipation@ $TC=25^\circ C$	40	W
T_j	Max. Operating Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	2.77	°C/W
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	62.5	°C/W



DIM	mm	
	MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.80
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.85
U	6.40	6.60

isc N-Channel Mosfet Transistor**2SK1356****• ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{(\text{BR})\text{DSS}}$	Drain-Source Breakdown Voltage	$V_{GS}=0$; $I_D= 10\text{mA}$	900			V
$V_{GS(\text{th})}$	Gate Threshold Voltage	$V_{DS}=10$ V; $I_D=1\text{mA}$	1.5		3.5	V
$R_{DS(\text{on})}$	Drain-Source On-stage Resistance	$V_{GS}=10\text{V}$; $I_D=1.5\text{A}$		3.3	4.3	Ω
I_{GSS}	Gate Source Leakage Current	$V_{GS}= \pm 25\text{V}$; $V_{DS}= 0$			± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=900\text{V}$; $V_{GS}= 0$			300	uA
V_{SD}	Diode Forward Voltage	$I_F=3\text{A}$; $V_{GS}=0$			2.0	V
t_r	Rise time	$V_{GS}=10\text{V}; I_D=1.5\text{A}; R_L=50\ \Omega$		55	120	ns
t_{on}	Turn-on time			70	165	ns
t_f	Fall time			60	120	ns
t_{off}	Turn-off time			280	550	ns