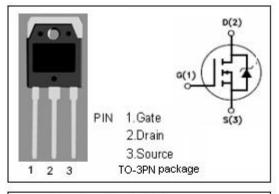


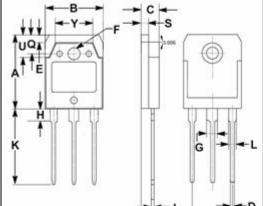
isc N-Channel MOSFET Transistor

2SK1723

DESCRIPTION

- Drain Current $I_D=12A@T_C=25$ °C
- Drain Source Voltage
- : V_{DSS}= 600V(Min)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





APPLICATIONS

· Power supplies, converters and power motor controls

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	600	V	
V _{GS}	Gate-Source Voltage ±30		V	
ID	Drain Current-continuous@ Tc=25℃	continuous@ T _c =25°C 12		
P _{tot}	Total Dissipation@T _c =25°C	sipation@T _c =25 [°] C 150		
Tj	Max. Operating Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

	m	m
DIM	MIN	MAX
Α	19.60	20.10
В	15.50	15.70
С	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
Н	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

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• ELECTRI	ELECTRICAL CHARACTERISTICS (1c=25 C)									
SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT					
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	600		V					
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	1.5	3.5	V					
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6A		0.65	Ω					
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±100	nA					
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		300	μA					

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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