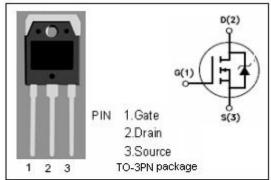


isc N-Channel MOSFET Transistor

2SK1678

DESCRIPTION

- Drain Current –I_D=16A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=500V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

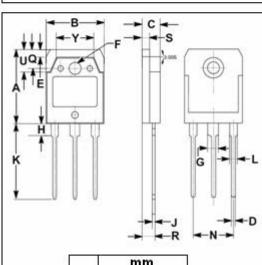


APPLICATIONS

• high Current, high speed power switching



SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-continuous@ TC=25℃	16	Α
P _{tot}	Total Dissipation@TC=25℃	200	W
T _j	Max. Operating Junction Temperature 150		$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-55~150	°C



	mm		
DIM	MIN	MAX	
Α	19.60	20.10	
В	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	
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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• ELECTRICAL CHARACTERISTICS (T_c=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 1mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =8A			0.47	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =500V; V _{GS} = 0			500	uA



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