

isc N-Channel MOSFET Transistor

2SK1767

DESCRIPTION

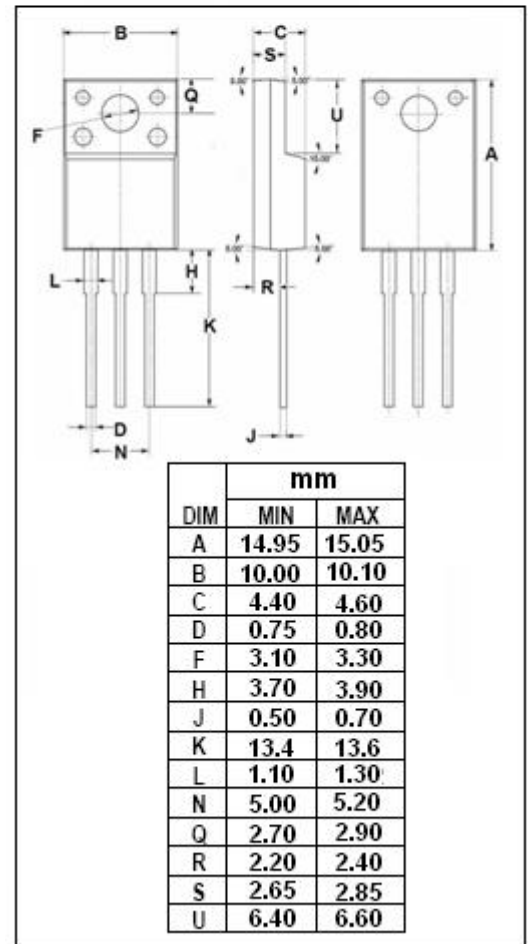
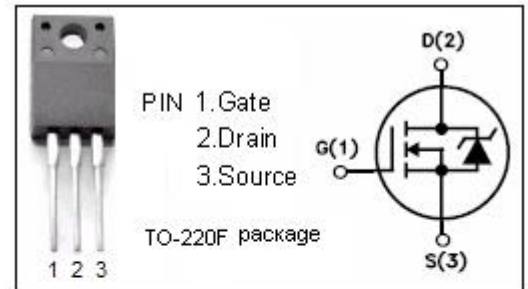
- Drain Current $I_D = 3.5A @ T_C = 25^\circ C$
- Drain Source Voltage
: $V_{DSS} = 600V(\text{Min})$
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supplies, converters and power motor controls

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	600	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-continuous@ $T_C = 25^\circ C$	3.5	A
P_{tot}	Total Dissipation@ $T_C = 25^\circ C$	40	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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• ELECTRICAL CHARACTERISTICS (T_c=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	2.1		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A			2.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0			100	μA
C _{iss}	Input Capacitance	V _{DS} =10V; V _{GS} =0V; f _r =1MHz		2100		pF
C _{rss}	Reverse Transfer Capacitance			210		
C _{oss}	Output Capacitance			530		
t _r	Rise Time	V _{GS} =10V; I _D =2.5A; V _{DD} =200V; R _L =80 Ω		20		ns
t _{on}	Turn-on Time			60		
t _f	Fall Time			30		
t _{off}	Turn-off Time			120		

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