

isc N-Channel MOSFET Transistor

2SK1456

DESCRIPTION

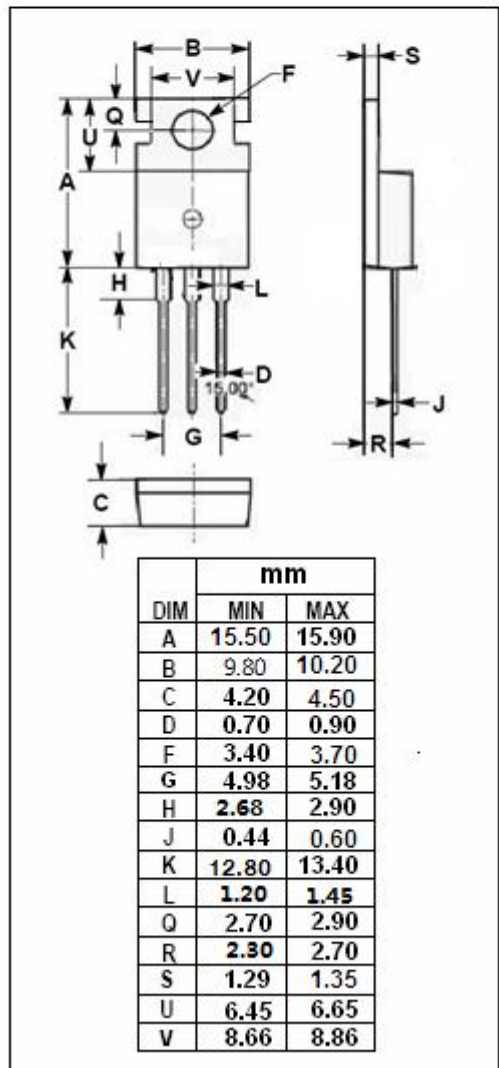
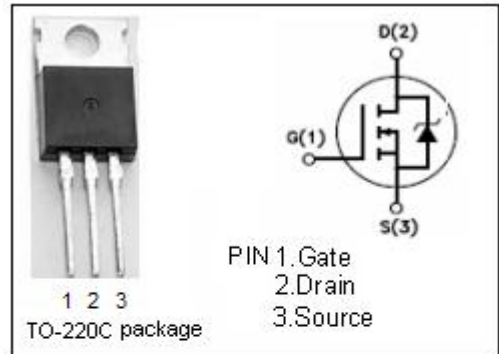
- Drain Current $-I_D=3A@ T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}=900$ (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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($T_a=25^{\circ}C$)

SYMBOL	ARAMETER	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@ $TC=25^{\circ}C$	60	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	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =1.5A		4.7	6.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V; V _{DS} = 0			± 100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =900V; V _{GS} = 0			1	mA
V _{SD}	Diode Forward Voltage	I _F =3A; V _{GS} =0			1.8	V
t _r	Rise time	V _{GS} =10V; I _D =1.5A; R _L =50 Ω		25		ns
t _{on}	Turn-on time			40		ns
t _f	Fall time			40		ns
t _{off}	Turn-off time			160		ns

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