

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK1338

DESCRIPTION

- Drain Current –I_D=2A@ T_C=25℃
- · Drain Source Voltage-: V_{DSS}= 900V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

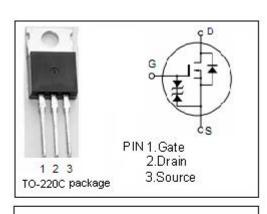
· Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

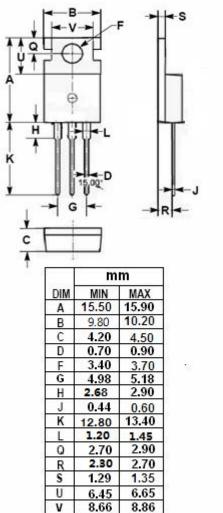
ABSOLUTE MAXIMUM RATINGS(Ta=25 C)				
SYME	BOL	ARAMETER	VALUE	
VDS	s	Drain-Source Voltage (V _{GS} =0)	900	
VG	s	Gate-Source Voltage	±30	

V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25°C	2	А
P _{tot}	Total Dissipation@TC=25°C	50	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.83	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	30	°C/W





UNIT



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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} = V _{GS} ; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =1A		5.0	7.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±25V;V _{DS} =0			±10	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 720V; V _{GS} = 0			250	uA
V_{SD}	Forward On-Voltage	I _S =2A; V _{GS} =0		0.9		V
tr	Rise time			8		ns
ton	Turn-on time	VGS=10V;ID=1A;		18		ns
tf	Fall time RL=30 Ω			70		ns
toff	Turn-off time			100		ns

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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