

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

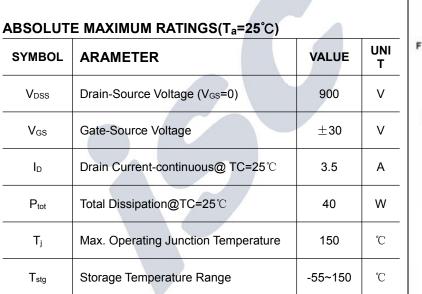
2SK1548

DESCRIPTION

- Drain Current –I_D=3.5A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=900 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

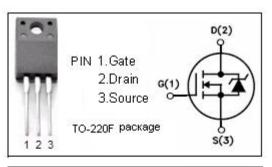
Designed for high voltage, high speed power switching

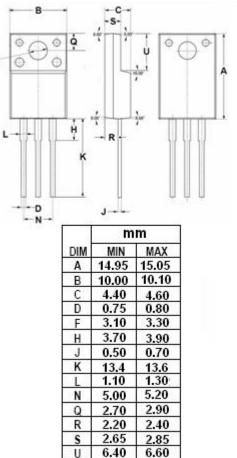


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	3.125	°C/W
Rth j-a	Thermal Resistance, Junction to Ambient	62.5	°C/W

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 1mA	900			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =0; I _D =1mA	2.5	3.5	5.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =2A		4.0	5.5	Ω
I _{GSS}	Gate Source Leakage Current	V_{GS} = $\pm 30V; V_{DS}$ = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =900V; V _{GS} = 0			500	uA
tr	Rise time	V _{GS} =10V;I _D =3.5A;R _L =25 Ω		65	100	ns
ton	Turn-on time			95	145	ns
tf	Fall time			60	90	ns
toff	Turn-off time			110	255	ns

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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