

isc N-Channel MOSFET Transistor

2SK1358

DESCRIPTION

- Drain Current -I_D= 9A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 900V(Min)
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



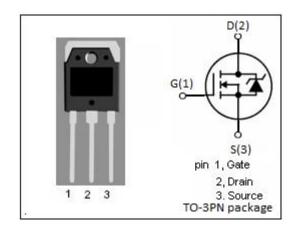
 Designed for high voltage, high current DC-DC converter, Relay Drive adn Moto Drives Applications.

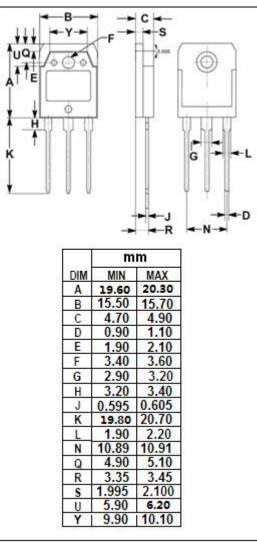
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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℃	9	Α
I _{DP}	Drain Current-Single Plused	27	Α
P _{tot}	Total Dissipation@TC=25°C	150	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.833	°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance,Junction to Ambient		°C/W







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• ELECTRICAL CHARACTERISTICS (Tc=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} =10 V _{GS} ; I _D =1mA	1.5		3.5	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =4A		1.1	1.4	Ω
Igss	Gate Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =720V; V _{GS} = 0			300	uA
V _{SD}	Diode Forward Voltage	I _F =9A; V _{GS} =0			2.0	V



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