

isc N-Channel MOSFET Transistor

RD3L150SN

FEATURES

- Drain Current –I_D= 15A@ T_C=25℃
- · Drain Source Voltage-: V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 40m \Omega$ (Max)
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

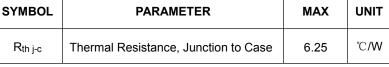
DESCRIPTION

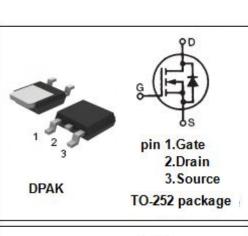
• Designed for use in switch mode power supplies and general purpose applications.

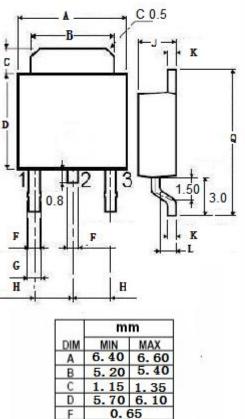
ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	60	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	15	А			
I _{DM}	Drain Current-Single Pluse	30	A			
P _D	Total Dissipation @T _c =25℃	20	W			
TJ	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM RATINGS(T=25°C)

THERMAL CHARACTERISTICS







isc website: www.iscsemi.com

1 isc & iscsemi is registered trademark

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0

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2.40

0.60



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	60		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	1	3	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 15A		40	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		1	μA
V _{SD}	Forward On-Voltage	I _S = 15A; V _{GS} = 0		1.2	V

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