

isc P-Channel MOSFET Transistor

SFH9154

• FEATURES

- With TO-3PN packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Power supply
- · Switching applications

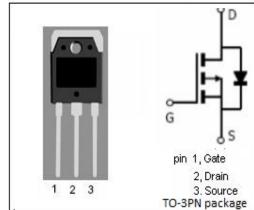


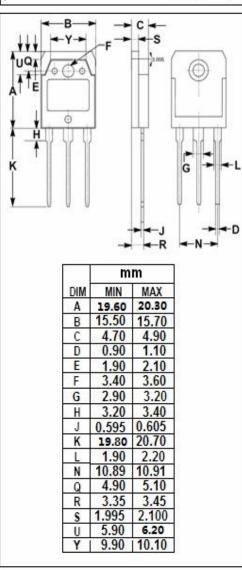
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	-150	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous@ T_c =25° C T_c =100° C	-18 -11.5	А
I _{DM}	Drain Current-Single Pulsed	-72	А
P _D	Total Dissipation	204	W
T _j	Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT			
Rth(ch-c)	Channel-to-case thermal resistance	0.61	°C/W			
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°C/W			







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = -0.25mA	-150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =-5V; I _D =-0.25mA	-2.0		-4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =-9.0A		140	200	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -150V; V _{GS} = 0V;Tc=25℃ V _{DS} = -120V; V _{GS} = 0V; Tc=125℃			-10 -100	μА
V _{SDF}	Diode forward voltage	I _{SD} =-18A, V _{GS} = 0 V			-5.0	V

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