

isc P-Channel MOSFET Transistor

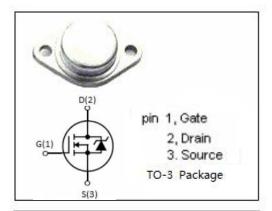
IRF9150

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤0.15Ω
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• Be designed for applications such as switching regulators, switching convertors, motor drivers, relay drivers, and drivers for high power bipolar switching transistors requiring high speed and low gate drive power.

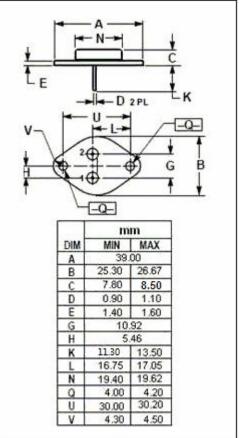


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	-100	V
V _{GS}	Gate-Source Voltage	e-Source Voltage ±20	
I _D	Drain Current-Continuous -25		А
I _{DM}	Drain Current-Single Pulsed	-100	А
P _D	Total Dissipation	150 W	
Tj	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	0.83	°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 = -250 μ A	-100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = -250 μ A	-1.5		-3	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D = -10A			0.15	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -100V; V _{GS} = 0V			-25	μ А
V _{SD}	Diode forward voltage	Is= -25A; V _{GS} = 0V			-1.5	V



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