

Isc N-Channel MOSFET Transistor

IRFSL4020PBF

FEATURES

- · With TO-262 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

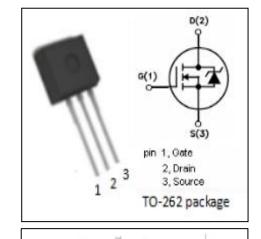


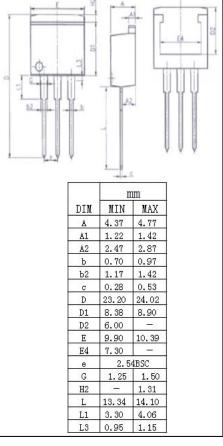
- · Power supply
- Switching applications



• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	18	А	
P _D	Total Dissipation @T _C =25°C	100	W	
Tj	Max. Operating Junction Temperature -55~175		$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	





• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.43	°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 = 250uA	200			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 100 μ A	3		4.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 11A		85	105	$\mathbf{m}\Omega$
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	I _S = 11A, V _{GS} = 0V			1.3	V



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