

isc N-Channel MOSFET Transistor

IRLR120N, IIRLR120N

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤185mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

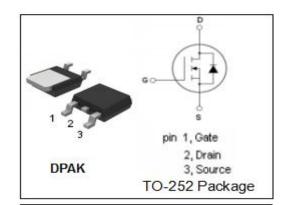
· Fast switching

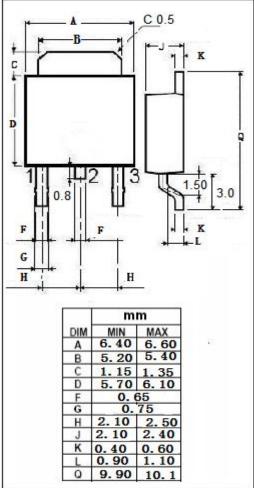
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	100	V	
V _{GS}	Gate-Source Voltage	±16	V	
ΙD	Drain Current-Continuous	10	А	
I _{DM}	Drain Current-Single Pulsed	35	А	
P_D	Total Dissipation @T _C =25°C	48	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	3.1	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	110	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25°C 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		2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =6A			185	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±16V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			25	μА
V _{SD}	Diode forward voltage	I _s =6A, V _{GS} = 0V			1.3	V

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