

isc N-Channel MOSFET Transistor

IPA60R120P7

• FEATURES

- Drain-source on-resistance:
 R_Ds(on) ≤ 0.12Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



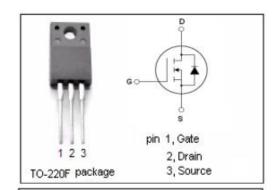
High switching Power Supply

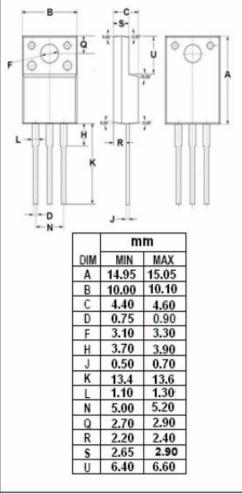
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	26	А
I _{DM}	Drain Current-Single Pulsed	78	А
P _D	Total Dissipation @T _C =25℃	28	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}\mathbb{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	4.49	°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 = 1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.25mA	3.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =8A			0.12	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} = 0V			1000	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _{DR} =8A, V _{GS} = 0 V			1.2	V

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