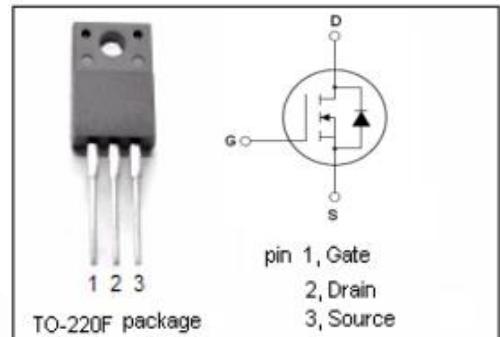


isc N-Channel MOSFET Transistor

IPA60R120P7

• FEATURES

- Drain-source on-resistance: $R_{DS(on)} \leq 0.12\Omega$
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



• APPLICATIONS

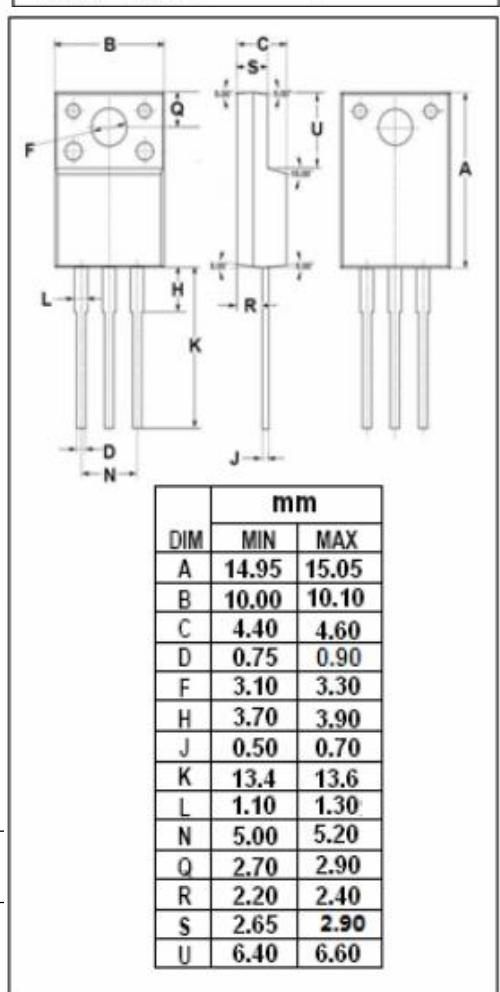
- High switching Power Supply

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	26	A
I_{DM}	Drain Current-Single Pulsed	78	A
P_D	Total Dissipation @ $T_c=25^\circ C$	28	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	4.49	$^\circ C/W$



isc N-Channel MOSFET Transistor**IPA60R120P7****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$\text{V}_{\text{GS}}=0\text{V}; \text{I}_D= 1\text{mA}$	600			V
$\text{V}_{\text{GS(th)}}$	Gate Threshold Voltage	$\text{V}_{\text{DS}}= \text{V}_{\text{GS}}; \text{I}_D=0.25\text{mA}$	3.0		4.0	V
$\text{R}_{\text{DS(on)}}$	Drain-Source On-Resistance	$\text{V}_{\text{GS}}=10\text{V}; \text{I}_D=8\text{A}$			0.12	Ω
I_{GSS}	Gate-Source Leakage Current	$\text{V}_{\text{GS}}= 20\text{V}; \text{V}_{\text{DS}}= 0\text{V}$			1000	nA
I_{DSS}	Drain-Source Leakage Current	$\text{V}_{\text{DS}}=600\text{V}; \text{V}_{\text{GS}}= 0\text{V}$			1	μA
V_{SD}	Diode forward voltage	$\text{I}_{\text{DR}} =8\text{A}, \text{V}_{\text{GS}} = 0 \text{ V}$			1.2	V