

isc N-Channel MOSFET Transistor

IPP60R600P6, IIPP60R600P6

FEATURES

- Static drain-source on-resistance: R⊳s(on) ≤0.6Ω
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

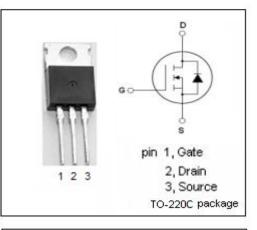
• Provide all benefits of a fast switching super junction MOS while not sacrificing ease of use

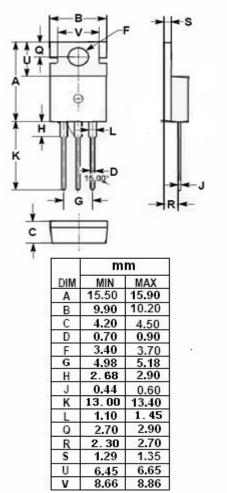


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	7.3	A	
I _{DM}	Drain Current-Single Pulsed 18		A	
P _D	Total Dissipation @Tc=25°C 63		W	
Tj	Max. Operating Junction Temperature 150		°C	
T _{stg}	Storage Temperature	-55~150	°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°C/W







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =1mA	600			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.2mA	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=2.4A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =3A; V _{GS} = 0V		0.9		V

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