

isc N-Channel MOSFET Transistor

IPP60R230P6, IIPP60R230P6

FEATURES

- Static drain-source on-resistance: R⊳s(on) ≤0.23Ω
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

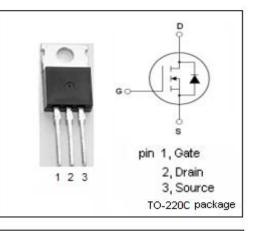
• Provide all benefits of a fast switching super junction MOS while not sacrificing ease of use

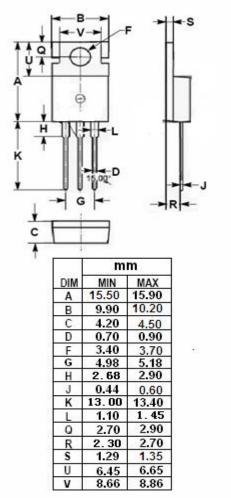


SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	600	V			
V _{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	16.8	A			
I _{DM}	Drain Current-Single Pulsed 4		A			
P _D	Total Dissipation @T _C =25°C	126	W			
Tj	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.99	°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 =0.53mA	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=6.4A			0.23	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 =8A; V _{GS} = 0V		0.9		V

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