

isc N-Channel MOSFET Transistor

IPP093N06N3, IIPP093N06N3

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤9mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

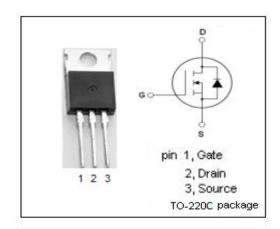
• reliable device for use in a wide variety of applications

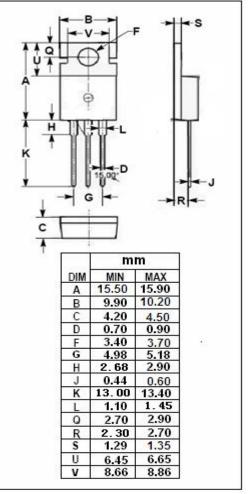
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	50	Α
I _{DM}	Drain Current-Single Pulsed	200	А
P _D	Total Dissipation @T _C =25°C		W
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.6	°C/W
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°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; ID =1mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =34 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =50A			9	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} = 0V			100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			1	μ А
V _{SD}	Diode forward voltage	I _F =50A, V _{GS} = 0 V			1.2	V

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