

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

MDP1922

FEATURES

- Static drain-source on-resistance: RDs(on) ≤8.4mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Be suitable for DC/DC converters and general purpose applications

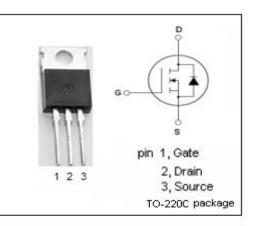
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

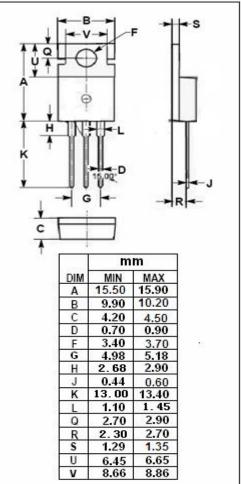
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	100	V				
V _{GS}	Gate-Source Voltage	±20	V				
I _D	Drain Current-Continuous	97	А				
I _{DM}	Drain Current-Single Pulsed	384	A				
P _D	Total Dissipation @T _c =25°C	ion @T _c =25℃ 157					
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

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• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.8	°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 =250 μ A	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =50A			8.4	mΩ
I _{GSS}	Gate-Source Leakage Current	$V_{GS}=\pm 20V; V_{DS}=0V$			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =80V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	Is=50A; V _{GS} = 0V			1.2	V

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