

Isc N-Channel MOSFET Transistor

SPP11N80C3

FEATURES

- Ultra low effective capacitances
- · Low gate charge
- · Improved transconductance
- Low gate drive power loss
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

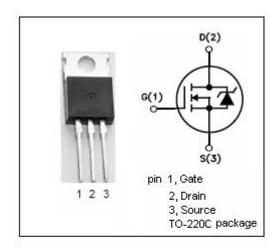


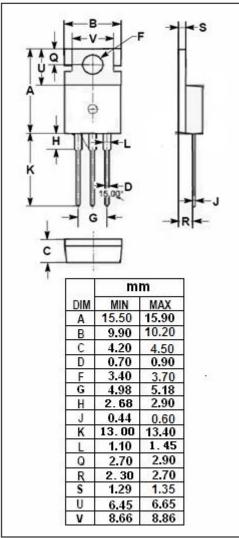
• ABSOLUTE MAXIMUM RATINGS(T_a=25 °C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	800	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous@Tc=25°C Tc=100°C	11 7.1	А	
I _{DM}	Drain Current-Single Pulsed	33	А	
P_D	Total Dissipation	156	W	
T _j	Operating Junction Temperature	-55~150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.8	°C/W	
Rth(ch-a)	(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; I _D = 0.25mA	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.68mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7.1A		390	450	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 800V; V _{GS} = 0V; T _J =25°C T _J =150°C			20 200	μА
V _{SDF}	Diode forward voltage	I _{SD} =11A, V _{GS} = 0 V			1.2	V



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