

isc N-Channel MOSFET Transistor

SPA11N60C3

• FEATURES

- New revolutionary high voltage technology
- · Ultra low gate charge
- · High peak current capability
- · Improved transconductance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





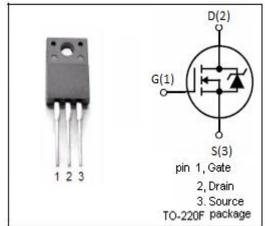


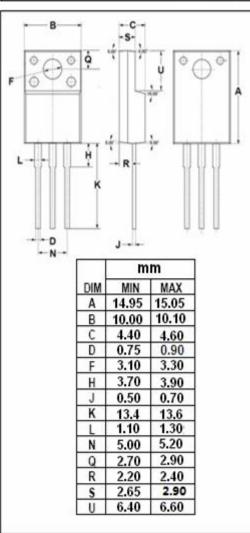
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage (f>1Hz)	±30	V	
I _D	Drain Current-Continuous@T _c =25°C T _c =100°C	11 7	А	
I _{DM}	Drain Current-Single Pulsed	33	А	
P _D	Total Dissipation	33	W	
Tj	Operating Junction Temperature	-55~150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.8	°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	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.5mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7A		340	380	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V; T _J =25°C T _J =125°C			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =20.7A, V _{GS} = 0 V			1.2	V



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