

Isc N-Channel MOSFET Transistor

SPA15N65C3

FEATURES

- With TO-220F package
- · Low input capacitance and gate charge
- Reduced switching and conduction losses
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



· Switching applications

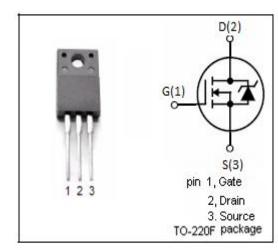


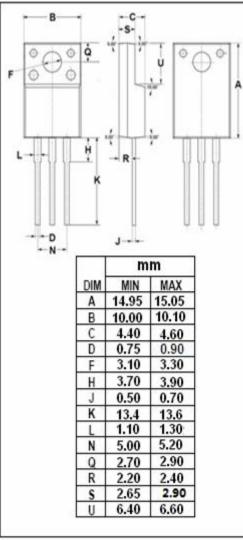
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE MAXIMOM (ATMOO(Ta-25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage 650		V			
V _{GSS}	Gate-Source Voltage	±30	V			
I _D	Drain Current-Continuous @Tc=25℃ 15 (V _{GS} at 10V) Tc=100℃ 9.4		А			
I _{DM}	Drain Current-Single Pulsed	45	А			
P _D	Total Dissipation @T _C =25℃	34	W			
Tj	Max. Operating Junction Temperature	150	$^{\circ}$			
T _{stg}	Storage Temperature	-55~150	$^{\circ}$			

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.7	°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	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.68mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =9.4A		250	280	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;Tj=25℃ V _{DS} = 650V; V _{GS} = 0V; Tj=150℃			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =15A, V _{GS} = 0V		1.0	1.2	V

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