

isc N-Channel MOSFET Transistor

SPA15N60C3

• FEATURES

- Drain-source on-resistance:
 $R_{DS(on)} \leq 0.28\Omega @ 10V$
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

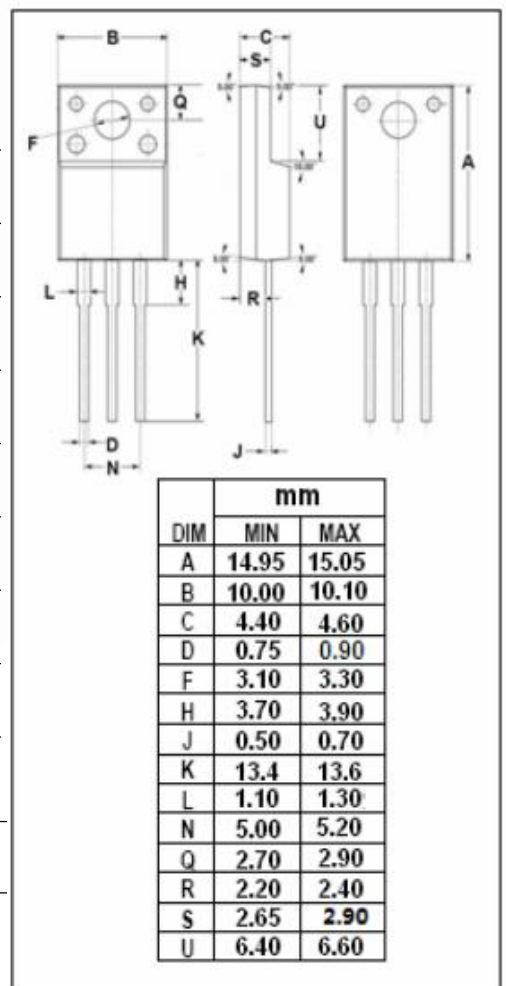
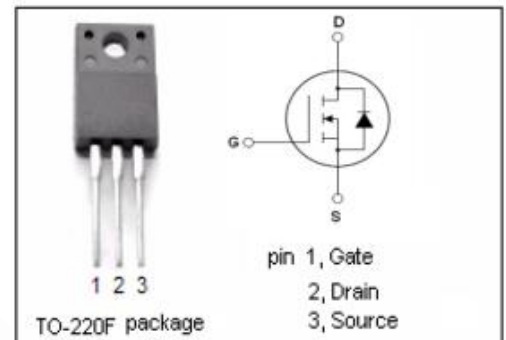
- High fast switching Power Supply

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	15	A
I _{DM}	Drain Current-Single Pulsed	45	A
P _D	Total Dissipation @T _c =25°C	34	W
T _j	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(ch-c)}	Channel-to-case thermal resistance	3.7	°C/W



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ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 250μA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =9.4A			0.28	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 30V; V _{DS} = 0V			10	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			1	μ A
		V _{DS} =650V; V _{GS} = 0V; T _J =150°C			100	
V _{SD}	Diode forward voltage	I _S =15A, V _{GS} = 0 V			1.2	V