

Isc N-Channel MOSFET Transistor

AOTF190A60L

• FEATURES

- With To-220F package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

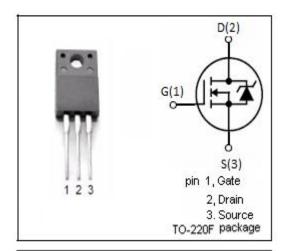


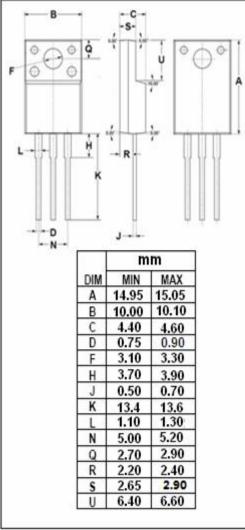
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous@T _C =25℃ T _C =100℃	10 12	А
I _{DM}	Drain Current-Single Pulsed	80	А
P _D	Total Dissipation @Tc=25℃	32	W
T _{ch}	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	Channel-to-case thermal resistance	3.9	°C/W		
Rth(ch-a)	Channel-to-ambient thermal resistance	65	°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} = 5V; I _D =0.25mA	3.2		4.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7.6A		0.17	0.19	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;Tj=25℃ Tj=125℃			1 10	μ А
V _{SDF}	Diode forward voltage	I _{SD} =10A, V _{GS} = 0 V			1.2	V



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