

isc N-Channel MOSFET Transistor

AOTF2618L

• FEATURES

- · With TO-220F packaging
- · High speed switching
- · Easy to use
- The most efficient high frequency switching performance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- PFC stages
- LCD & PDP TV
- Power supply
- · Switching applications

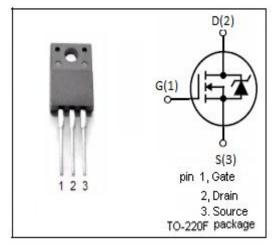


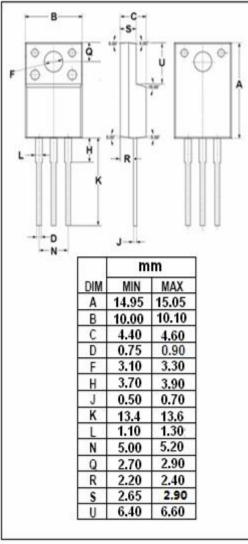
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous@ T_c =25° C T_c =100° C	22 16	А	
I _{DM}	Drain Current-Single Pulsed	70	A	
P _D	Total Dissipation	23.5	W	
Tj	Operating Junction Temperature -55~17		${\mathbb C}$	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT			
Rth(ch-c)	Channel-to-case thermal resistance 6.4		°C/W			
Rth(ch-a)	Channel-to-ambient thermal resistance	60	°C/W			







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.25mA	1.4		2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A;Tj=25℃ Tj=125℃		15.8 29.3	19 35.5	mΩ
l _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V;Tc=25°C V _{DS} = 60V; V _{GS} = 0V;Tc=55°C			1 5	μА
V _{SDF}	Diode forward voltage	I _{SD} =1A, V _{GS} = 0 V			1.0	V

NOTICE:

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