

isc N-Channel MOSFET Transistor

AOTF27S60

• FEATURES

- Drain Current –I_D= 27A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.16 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

 Be suitable for synchronous rectification for server and general purpose applications

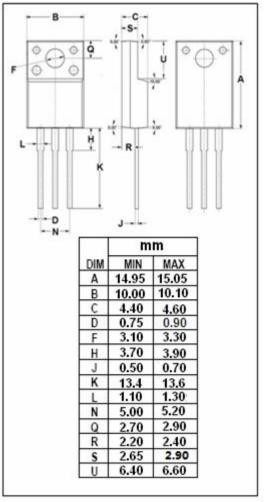
pin 1.Gate 2.Drain 3.Source TO-220F package

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	V		
V _{GS}	Gate-Source Voltage	V		
I _D	Drain Current-Continuous	27	А	
I _{DM}	Drain Current-Single Pulsed	110	А	
P _D	Total Dissipation @Tc=25°C	50	W	
Tj	Max. Operating Junction Temperature -55~150		${\mathbb C}$	
T _{stg}	Storage Temperature -55~150		°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 250 μ A	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 250 μ A	2.5		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 13.5A V _{GS} = 10V; I _D = 13.5A;T _J = 150°C			0.16 0.44	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V V _{DS} = 480V; V _{GS} = 0V		10	1	μА
V _{SD}	Diode forward voltage	Is= 1A; V _{GS} = 0V			1	V

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