

isc N-Channel MOSFET Transistor

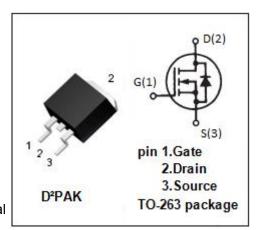
AOT7S65L

FEATURES

- Drain Current –I_D= 7.0A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=650V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.65 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



• Designed for use in switch mode power supplies and general purpose applications.

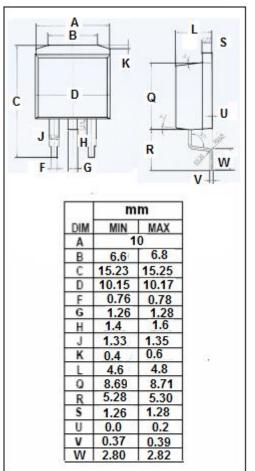


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	7.0	А
I _{DM}	Drain Current-Single Pluse	30	А
P _D	Total Dissipation @T _C =25℃	104	W
TJ	Max. Operating Junction Temperature -50~150		$^{\circ}$ C
T _{stg}	Storage Temperature	-50~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.2	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBO L	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	650			٧
V _{GS} (th)	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	2.6		4.0	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.5A V _{GS} = 10V; I _D =3.5A@T _J =150℃			0.65 1.64	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =650V; V _{GS} = 0 V _{DS} =520V; V _{GS} = 0@T _J =150°C		10	1	μА
V _{SD}	Forward On-Voltage	I _S = 3.5A; V _{GS} = 0		0.82		V



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