/ Revised record

A	2022.07.15	All	AOS-AONS21307		

/ Descriptions

PDFN5×6 P
。
P-Channel MOSFET in a PDFN5 × 6 Plastic Package.

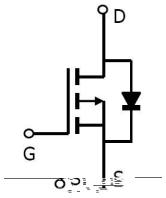
/ Features

Low $R_{DS(ON)}$ to minimize conductive loss;low Gate Charge for fast switching;Low Thermal resistance; HF Product.

/ Applications

/
Notebook AC-in load switch, Battery Protection Charge/Discharge.

/ Equivalent Circuit



/ Pinning



PIN1、2、3： S PIN4：G PIN5、6、7、8：D

Pin	极性
1	S
2	S
3	S
4	G
5	D
6	D
7	D
8	D

/ Marking

。

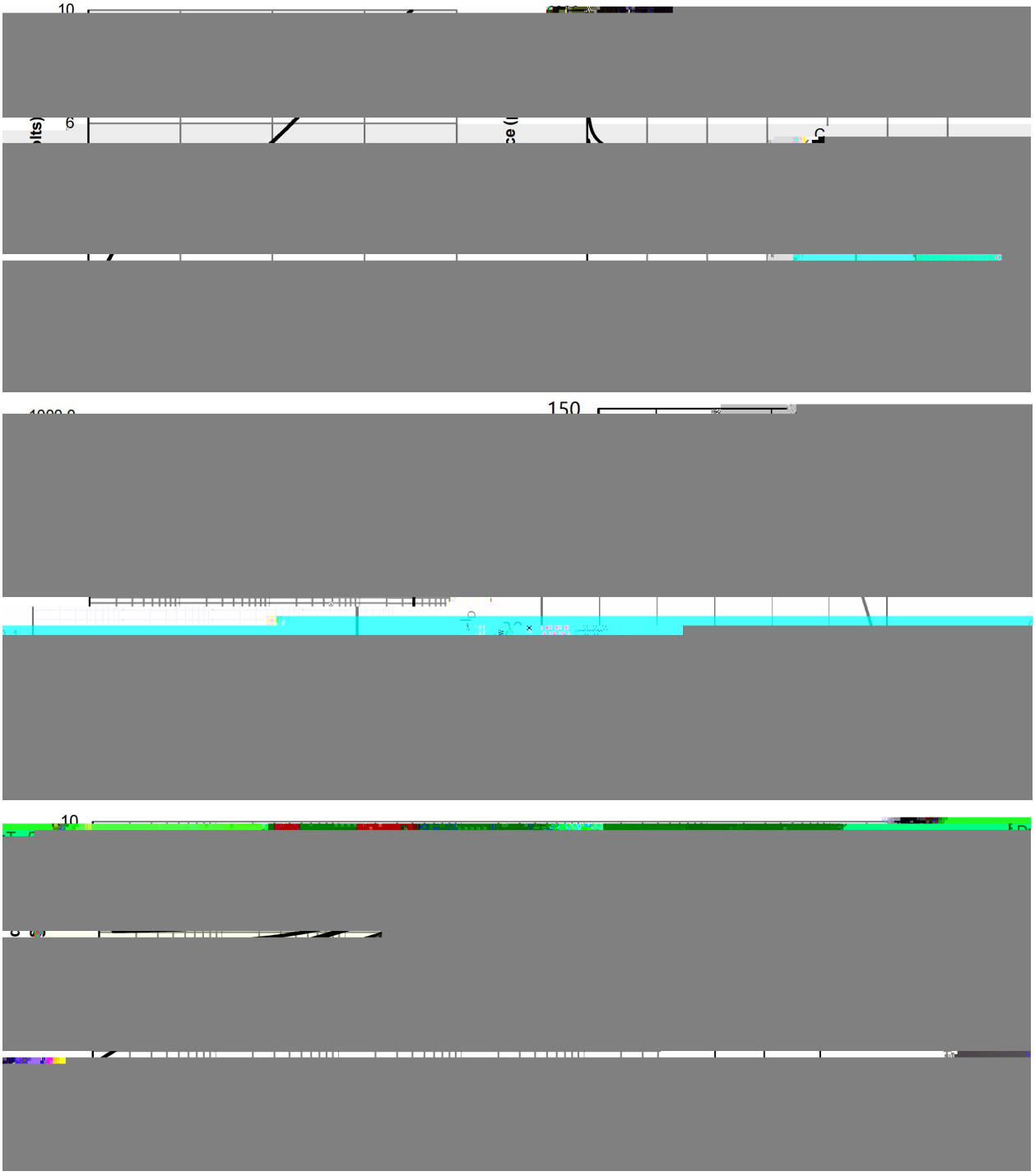
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-40	V
Drain Current - Continuous	$I_D(T_c=25℃)$	-45	A
Drain Current – Pulsed	I_{DM}	-120	A

BRCS120P04ZC

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/ Electrical Characteristic Curve



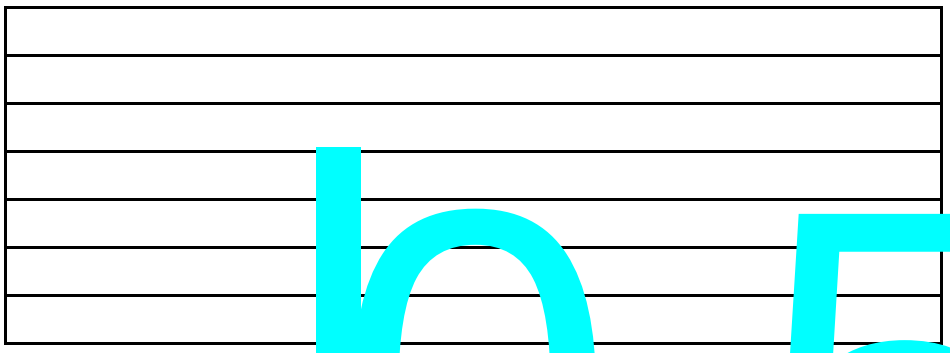
/ Package Dimensions



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( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



10.5s

N

1	150	180	60	Preheating: 150~180℃, Time:60sec.
2	245±5		5±0.5sec,	2.Peak Temp: 245±5℃, Dwell Time: 5±0.5sec.
3		2	10℃/sec.	3. Cooling Speed: 2~10℃/sec.