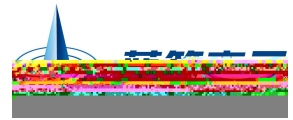


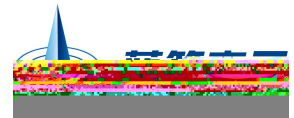
A	2021.12.30	All	AOS-AOT288L() & AOS-AOT66920L()		



TO-220 N
N-CHANNEL MOSFET in a TO-220 Plastic Package.

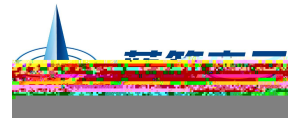
Ultra Low On-Resistance, fast switching.

PFC

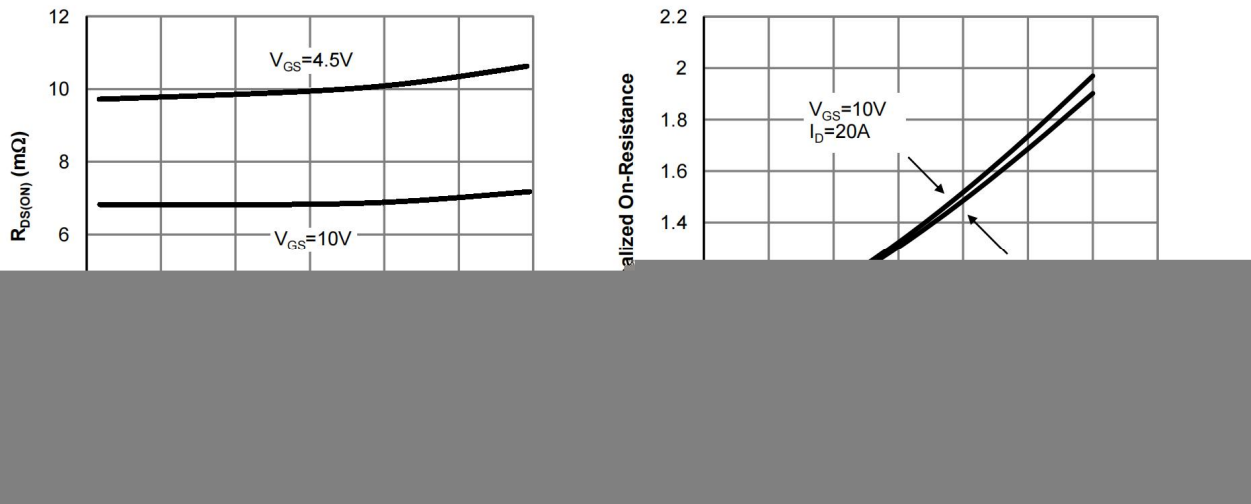
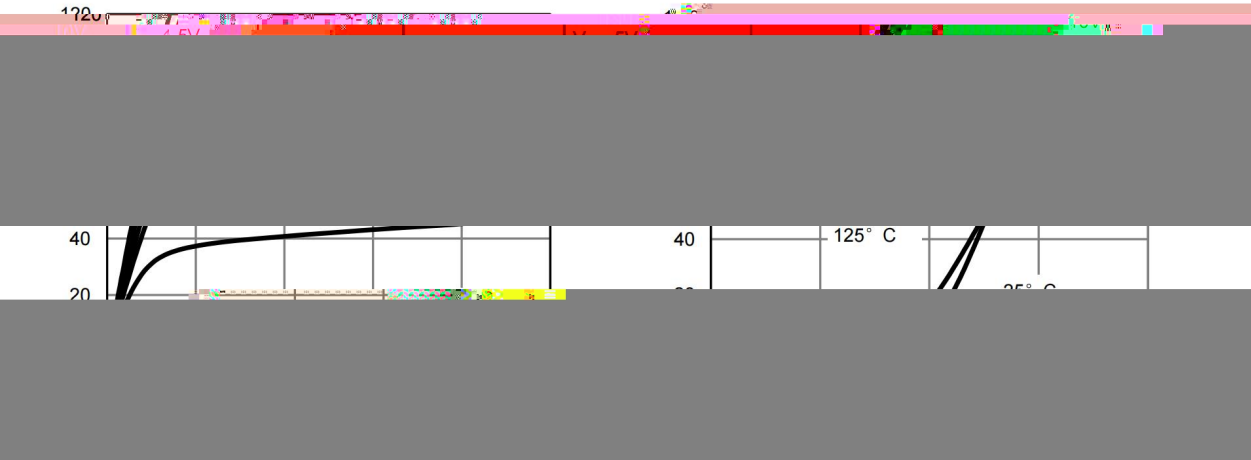
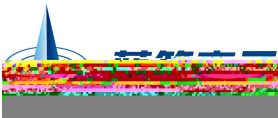


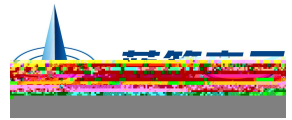
参数 Parameter		符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage		V _{DS}	80	V
Continuous Drain Current		I _D	46	A
Pulsed Drain Current		I _{DM}	160	A
Gate-Source Voltage		V _{GS}	± 20	V
Power Dissipation		P _D (T _c =25)	93.5	W
Avalanche energy(L=0.5mH)		E _{AS}	84	mJ
Avalanche Current(L=0.5mH)		I _{AS}	19	A
Junction and Storage Temperature Range		T _j , T _{stg}	-55 to 150	℃
Maximum Junction-to-Ambient	t ≤ 10s	R _{θJA}	15	℃/ W
	Steady-State		60	
Maximum Junction-to-Case	Steady-State	R _{θJC}	1.3	

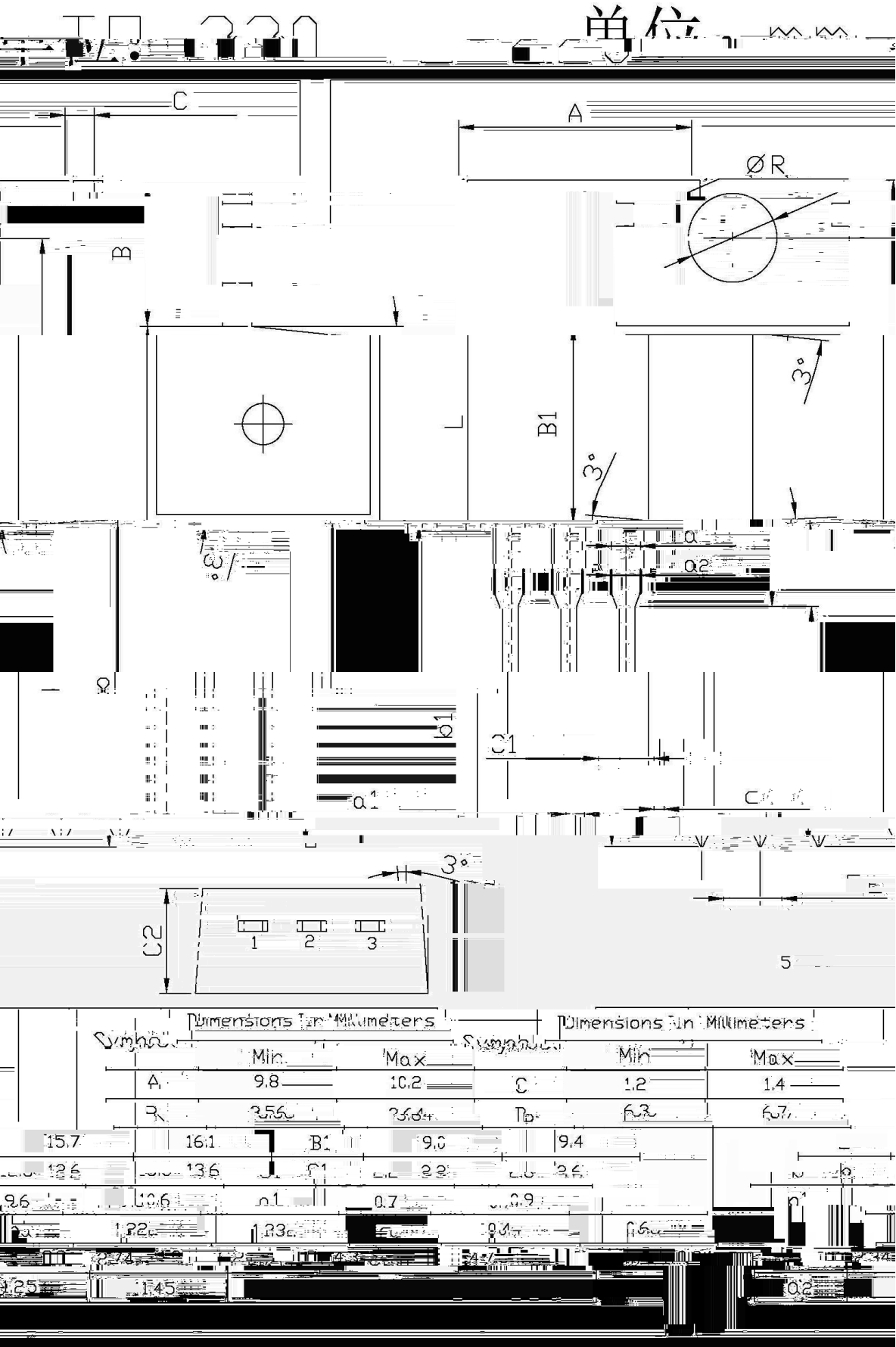
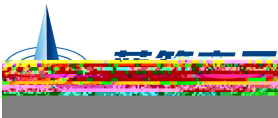
参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D=250\mu\text{A}, V_{GS}=0\text{V}$	80	93		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=80\text{V}, V_{GS}=0\text{V}$			1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS}=0\text{V}, V_{GS}=\pm 20\text{V}$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu\text{A}$	1.0	1.9	2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10\text{V}, I_D=20\text{A}$		6.9	8	m Ω
		$V_{GS}=4.5\text{V}, I_D=10\text{A}$		9.9	13	
Diode Forward Voltage	V_{SD}	$I_S=1\text{A}, V_{GS}=0\text{V}$			1.2	V
Input Capacitance	C_{iss}	$V_{DS}=25\text{V}, V_{GS}=0\text{V}, f=1.0\text{MHz}$		2200		pF
Output Capacitance	C_{oss}			850		
Reverse Transfer Capacitance	C_{rss}			95		
Gate resistance	R_g	$V_{GS}=0\text{V}, V_{DS}=0\text{V}, f=1\text{MHz}$		3.3		Ω
Total Gate Charge	$Q_{g(10V)}$	$V_{GS}=10\text{V}, V_{DS}=50\text{V}, I_D=20\text{A}$		35		nC
Total Gate Charge	$Q_{g(4.5V)}$			16.7		
Gate Source Charge	Q_{gs}			8		
Gate Drain Charge	Q_{gd}			5		

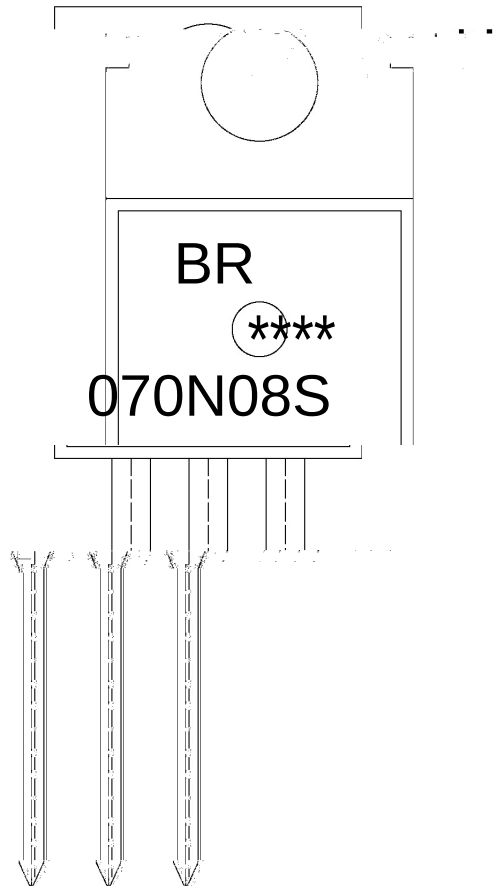
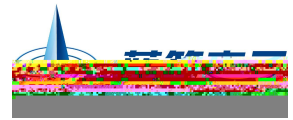


参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5\Omega$ $R_{GEN}=3\Omega$		10		ns
Turn-On Rise Time	t_r			4		
Turn-Off Delay Time	$t_{d(off)}$			31		
Turn-Off Fall Time	t_f			6		









说明：

BR： 为公司代码

070N08S： 为型号代码

****： 为生产批号代码，随生产批号变化

Note:

BR: Company Code

070N08S: Product Type

****: Lot No. Code, code change with Lot No

