

BRCS120N06SYMQ

Rev.A Jul.-2022



DATA SHEET

PDFN5×6A N
Dual N-

Parameter		! Symbol	" Rating	# \$ Unit
Drain-Source Voltage		V_{DSS}	60	V
Drain Current		$I_D(T_C=25^{\circ}C)$	24.5	A
Drain Current - Pulsed		I_{DM}	95	A
Gate-Source Voltage		V_{GSS}	± 20	V
Single Pulsed Avalanche Energy		E_{AS}	70	mJ
Avalanche Current		I_{AS}	20	A
Power Dissipation		$P_D(T_C=25^{\circ}C)$	12.5	W
Operating and Storage Temperature Range		T_J, T_{stg}	-55 to 150	$^{\circ}C$
Junction-to-Ambient	$t \leq 10$	$R_{\theta JA}$	35	$^{\circ}C/W$
Junction-to-Ambient	Steady-State		70	
Junction-to-Case	Steady-State	$R_{\theta JC}$	10	

Parameter	! Symbol	% & ' (Test Conditions	) * " Min	+ , " Typ	) - " Max	# \$ Unit
Drain-Source Breakdown Voltage	BV_{DSS}					

/ Electrical Characteristics(Ta=25 °C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=30V$ $R_L=2.3\Omega$ $R_{GEN}=3\Omega$		5		ns
Turn-On Rise Time	t_r			3		
Turn-Off Delay Time	$t_{d(off)}$			19		
Turn-Off Fall Time	t_f			3		

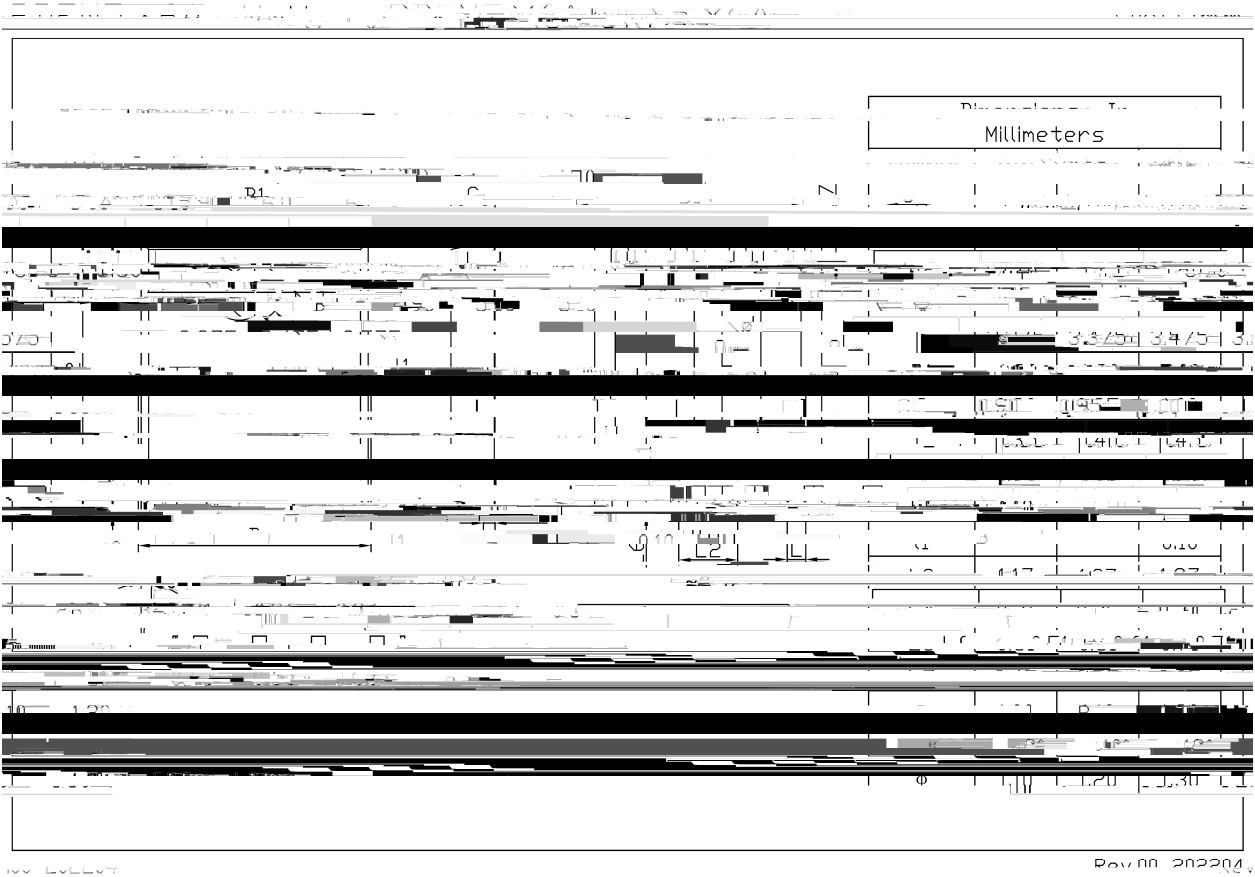
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/ Package Dimensions



/ Marking Instructions

. / 0
BR 0 1 2 3 4 5
Q 0

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

Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 2

255 5

5 0.5sec;

2.Peak Temp.:255 5 , Duration:5 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260 5