

**BRCS120N06SYMQ**  
Rev.A Jul.-2022



# BRCs120N06SYMq

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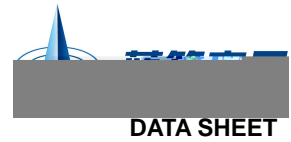
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Dual N-

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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	$V_{GSS}$	$\pm 20$	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	$t \leq 10$	35	$^\circ C/W$
Junction-to-Ambient	Steady-State		
Junction-to-Case	Steady-State	70	
		10	

Parameter	Symbol	I / fi fl Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	$BV_{DSS}$					

**/ Electrical Characteristics(Ta=25 )**

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

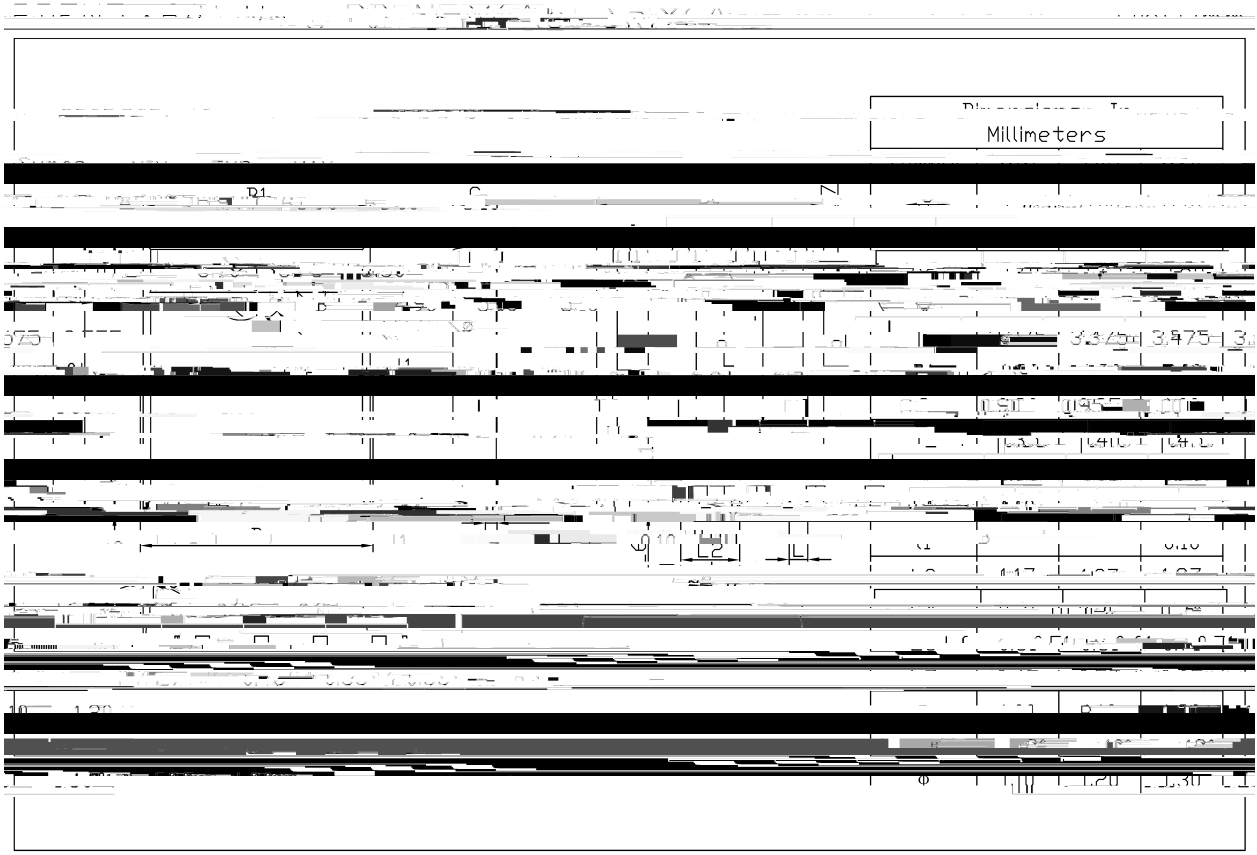
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**/ Package Dimensions**



**/ Marking Instructions**

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**( ) / 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