




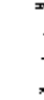


# CAPITÓLIO

## Diode Stud Type **CSN110/CSN140/CSN300**

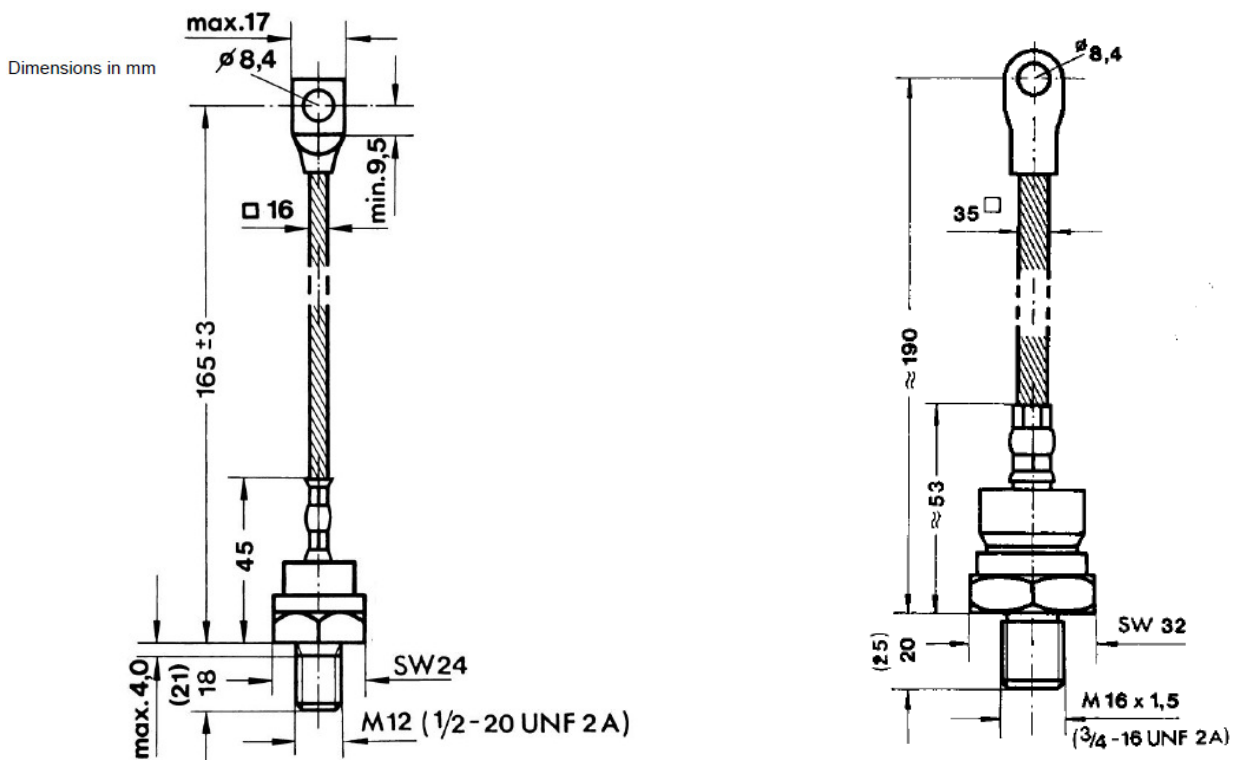
<b>I<sub>FRMS</sub> (maximum value for continuous operation)</b>						
		200 A		260 A		500 A
<b>I<sub>FAV</sub> (sin. 180; T<sub>case</sub> = 100°C)</b>						
<b>V<sub>RMS</sub></b>	125 A		165 A		320A	
<b>V<sub>RRM</sub></b>						
<b>V</b>						
	<b>CSN</b>	<b>CSR</b>	<b>CSN</b>	<b>CSR</b>	<b>CSN</b>	<b>CSR</b>
200	110/02	110/02	140/02	140/02	300/02	300/02
400	110/04	110/04	140/04	140/04	300/04	300/04
800	110/08	110/08	140/08	140/08	300/08	300/08
1000	110/10	110/10	140/10	140/10	300/10	300/10
1200	110/12	110/12	140/12	140/12	300/12	300/12
1400	110/14	110/14	140/14	140/14	300/14	300/14
1600	110/16	110/16	140/16	140/16	300/16	300/16
1800	110/18	110/18	140/18	140/18	300/18	300/18
2000	110/20	110/20	140/20	140/20	300/20	300/20
2400	110/24	110/24	140/24	140/24	300/24	300/24
2800	110/28	110/28	140/28	140/28	300/28	300/28
3500	110/35	110/35	140/35	140/35	300/35	300/35

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Symbol	Conditions	CSN110	CSN140	CSN300
		CSR110	CSR140	CSR300
<b>I<sub>FAV</sub></b>	sin.180			
	T <sub>case</sub> = 100°C = 125°C	125 A 100 A	165 A 130 A	320 A 240 A
<b>I<sub>FSM</sub></b>	T <sub>vj</sub> = 25°C ; 10 ms	1 750 A	2 500 A	6 000 A
	T <sub>vj</sub> = 180°C ; 10 ms	1 500 A	2 000 A	5 000 A
<b>i<sup>2</sup>t</b>	T <sub>vj</sub> = 25°C ; 8,3 ms	15 000 A <sup>2</sup> s	31 000 A <sup>2</sup> s	180 000 A <sup>2</sup> s
	T <sub>vj</sub> = 180°C ; 10ms	11 500 A <sup>2</sup> s	20 000 A <sup>2</sup> s	125 000 A <sup>2</sup> s
<b>Q<sub>RR</sub></b>	T <sub>vj</sub> = 160°C; -(di <sub>F</sub> /dt) = (10 · A/μs)	typ. 100μC	typ. 120μC	typ. 200μC
<b>I<sub>R</sub></b>	T <sub>vj</sub> = 25°C / V <sub>R</sub> = V <sub>RRM</sub>	1 mA	1 mA	2 mA
	T <sub>vj</sub> = 180°C / V <sub>R</sub> = V <sub>RRM</sub>	15 mA	22 mA	60 mA
<b>V<sub>F</sub></b>	T <sub>vj</sub> = 25°C;	1,55V (400A)	1,5V (500A)	1,4V (750A)
<b>V<sub>(TO)</sub></b>	T <sub>vj</sub> = 180°C	0,85V	0,85V	0,85V
<b>r<sub>T</sub></b>	T <sub>vj</sub> = 180°C	1,8 mΩ	1,3 mΩ	0,6 mΩ
<b>R<sub>thjc</sub></b>		0,45° C/W	0,35° C/W	0,20° C/W
<b>R<sub>thch</sub></b>		0,08° C/W	0,08° C/W	0,03° C/W
<b>T<sub>vj</sub></b>		-40...+180° C		
<b>T<sub>stg</sub></b>		-55...+180° C		

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Symbol	Conditions	CSN110	CSN140	CSN300
		CSR110	CSR140	CSR300
<b>M</b> <b>a</b> <b>w</b>	SI units / US units	10Nm /90lb.in.	10Nm /90lb.in.	30Nm /270lb.in.
	Aprox.	$5 \cdot 9,81 \text{ m/s}^2$	$5 \cdot 9,81 \text{ m/s}^2$	$5 \cdot 9,81 \text{ m/s}^2$
		100g	100g	250g
<b>RC</b> <b>R<sub>p</sub></b>	PR = 2W	0,25 $\mu$ F + 50 $\Omega$	0,25 $\mu$ F + 50 $\Omega$	0,5 $\mu$ F + 30 $\Omega$
	PR = 20W	50k $\Omega$	50k $\Omega$	50k $\Omega$
<b>Stud</b>		M12 / ½	M12 / ½	M16 x1,5
		20UNF	20UNF	¾ -16UNF



**CAPITÓLIO** Comércio Representação Importação e Exportação Ltda.  
 Al. dos Pamaris, 188 - Campo Belo - ☎04086.020 - S. Paulo - 📞(011) 5090-4500 📠(011)5543.0736  
 CGC. : 00.023.280 / 0001-53 I.E. : 114.102.283.115 E.mail : [capitolio@capitoliosemic.com.br](mailto:capitolio@capitoliosemic.com.br)  
 Visite nosso SITE : [www.capitoliosemic.com.br](http://www.capitoliosemic.com.br)