




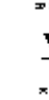


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Diode Stud Type **CSN30/CSN55/CSN90**

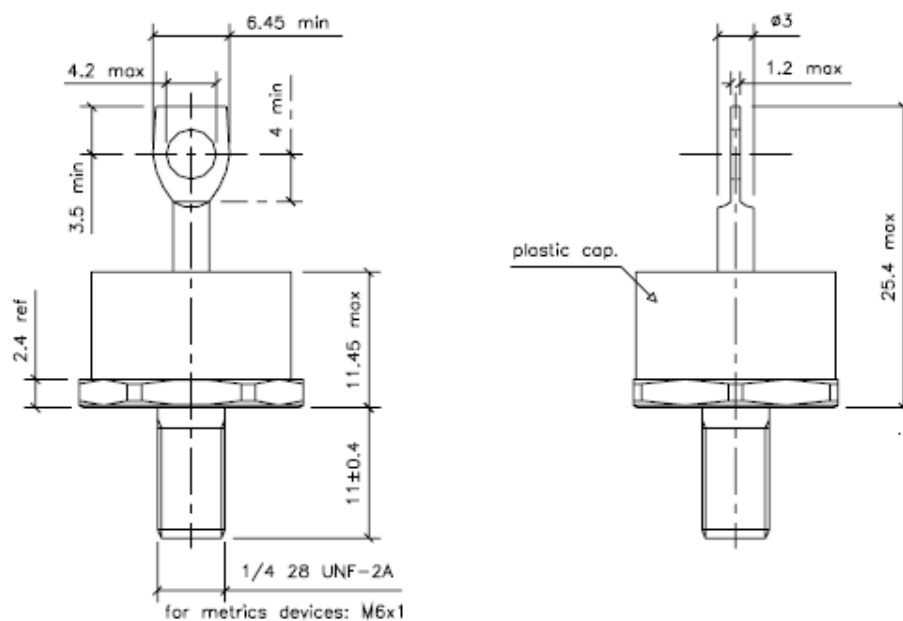
I_{FRMS} (maximun value for continuos operation)						
		40 A		50 A		95 A
I_{FAV} (sin. 180; T_{case} = 100°C)						
V_{RMS}	I_{FAV}=25A (T_{CASE} = 73°C)		78 A		320A	
V_RRM						
V						
	<u>CSN</u>	<u>CSR</u>	<u>CSN</u>	<u>CSR</u>	<u>CSN</u>	<u>CSR</u>
200	30/02	30/02	50/02	50/02	90/02	90/02
400	30/04	30/04	50/04	50/04	90/04	90/04
800	30/08	30/08	50/08	50/08	90/08	90/08
1000	30/10	30/10	50/10	50/10	90/10	90/10
1200	30/12	30/12	50/12	50/12	90/12	90/12
1400	30/14	30/14	50/14	50/14	90/14	90/14
1600	30/16	30/16	50/16	50/16	90/16	90/16
1800	30/18	30/18	50/18	50/18	90/18	90/18

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Symbol	Conditions	CSN30	CSN55	CSN90
		CSR30	CSR55	CSR90
I_{FAV}	sin.180			
	T _{case} = 100°C = 125°C	25 A 20 A	50A 45 A	95 A 70 A
I_{FSM}	T _{vj} = 25°C ; 10 ms	375 A	700 A	1150 A
	T _{vj} = T _{vjmax} ; 10 ms	320 A	600 A	1000 A
i²t	T _{vj} = 25°C ; 8,3...10 ms	700 A ² s	2500 A ² s	6600 A ² s
	T _{vj} = 180°C ; 8,3...10 ms	510 A ² s	1800 A ² s	5000 A ² s
PRSM	T _{vj} > 250°C , t _p = 10μs	6kW		
Q_{RR}	T _{vj} = 160°C; -(di _F /dt) = (10 · A/μs)	typ. 20μC	typ. 70μC	typ. 70μC
I_R	T _{vj} = 25°C / V _R = V _{RRM}	0,3 mA	0,6 mA	0,6 mA
	T _{vj} = 180°C / V _R = V _{RRM}	4 mA	10 mA	10 mA
V_F	T _{vj} = 25°C;		1,6V (150A)	1,5V (200A)
	I _F = 60A; max	1,55V	0,85V	0,85V
V_(TO)			5 mΩ	3 mΩ
	T _{vj} = T _{vjmax}	0,85 V		
r_T	T _{vj} = T _{vjmax}	11 mΩ		
R_{thjc}		2 ° C/W	0,85° C/W	0,55° C/W
R_{thch}		1 ° C/W	0,25° C/W	0,2° C/W

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T_{vj}		-40...+180° C		
T_{stg}		-55...+180° C		
Symbol	Conditions	CSN30 CSR30	CSN55 CSR55	CSN90 CSR90
M	SI units / US units	2,0Nm /18lb.in.	4Nm /35lb.in.	4Nm /35lb.in.
a		5 · 9,81 m/s ²	5 · 9,81 m/s ²	5 · 9,81 m/s ²
w	Aprox.	10g	100g	250g
RC	PR = 1 W	0,05μF + 200Ω	0,1μF + 100Ω	0,1μF + 100Ω
R_p			1W	2W
	PR = 4 W	150kΩ	80kΩ	80kΩ
Stud		M6 / ¼	M6 / ¼	M6 ¼



CAPITÓLIO Comércio Representação Importação e Exportação Ltda.
 Al. dos Pamarís, 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
 Visite nosso SITE : www.capitoliosemic.com.br