

CAPITÓLIO

MODULE TYPE		CSSD95
Diode Modules		$I_{FRMS} = 2 \times 180 \text{ A}$ $I_{FAVM} = 2 \times 120 \text{ A}$ $V_{RRM} = 800\text{-}2300 \text{ V}$
VOLTAGE RATINGS MAXIMUM		LIMITS UNITS
V_{DRM} Repetitive peak off-state voltage,		1600-2200 V
V_{DSM} Non-repetitive peak off-state voltage,		1600-2200 V
V_{RRM} Repetitive peak reverse voltage,		1600-2200 V
V_{RSM} Non-repetitive peak reverse voltage		1700-2300V

OTHER RATINGS MAXIMUM LIMITS UNITS

Symbol	Test Conditions	Maximum	Ratings
I_{FRMS}	$T_{VJ} = T_{VJM}$	180	A
I_{FAVM}	$T_C = 100^\circ\text{C}$; 180° sine	120	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t = 10 \text{ ms}$ (50 Hz), sine	2800	A
I_{FSM}	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	3300	A
I_{FSM}	$T_{VJ} = T_{VJM}$ $t = 10 \text{ ms}$ (50 Hz), sine	2500	A
I_{FSM}	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	2750	A
$\int i_2 dt$	$T_{VJ} = 45^\circ\text{C}$ $t = 10 \text{ ms}$ (50 Hz), sine	39 200	A ² s
$\int i_2 dt$	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	45 000	A ² s
$\int i_2 dt$	$T_{VJ} = T_{VJM}$ $t = 10 \text{ ms}$ (50 Hz), sine	31 200	A ² s
$\int i_2 dt$	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	31 300	A ² s
T_{VJ}	repetitive, $I_T = 250 \text{ A}$	-40...+150	°C
T_{VJM}		125	°C
T_{stg}		-40...+150	°C
V_{ISOL}	50/60 Hz, RMS $t = 1 \text{ min}$	3000	V~
V_{ISOL}	$I_{ISOL} = 1 \text{ mA}$ $t = 1 \text{ s}$	3600	V~
M_d	Mounting torque (M5)	2.5-4.0/ 22-35	Nm/lb.in.
M_d	Terminal connection torque (M6)	2.5-4.0/ 22-35	Nm/lb.in.
Weight	Typical including screws	90	g
I_R	$T_{VJ} = T_{VJM}$; $V_R = V_{RRM}$	15	mA
V_F	$I_F = 300 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	1.43	V
V_{T0}	For power-loss calculations only	0.75	V
r_T	$T_{VJ} = T_{VJM}$	1.95	mΩ
Q_s	$T_{VJ} = 125^\circ\text{C}$; $I_F = 50 \text{ A}$, $-di/dt = 6 \text{ A}/\mu\text{s}$	170	μC
I_{RM}		45	A
R_{thJC}	per diode; DC current	0.26	K/W
R_{thJK}	per module	0.13	K/W
	per diode; DC current	0.46	K/W
	per module	0.23	K/W
d_s	Creepage distance on surface	12.7	mm
d_a	Strike distance through air	9.6	mm
a	Maximum allowable acceleration	50	m/s ²

CAPITÓLIO Comércio Representação Importação e Exportação Ltda.

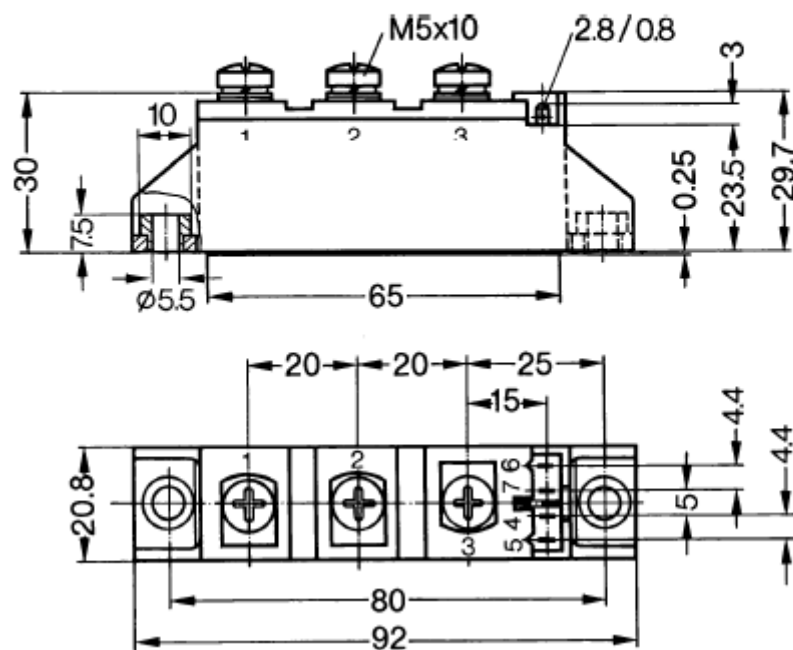
Al. dos Pamaris, 188 - Campo Belo - ☎ 04086.020 - S. Paulo - 📞 (011) 5090-4500 📠 (011)5543.0736

CGC. : 00.023.280 / 0001-53 I.E. : 114.102.283.115 E.mail : capitolio@capitoliosemic.com.br

Visite nosso SITE : www.capitoliosemic.com.br

CAPITÓLIO

Dimensions in mm (1 mm = 0.0394")



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
Visite nosso SITE : www.capitoliosemic.com.br