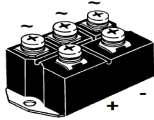


CAPITÓLIO

Three Phase Rectifier Bridge

CSD62/82



$I_{dAV} = 63/88 \text{ A}$
 $V_{RRM} = 800-2300 \text{ V}$

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

Symbol	Test Conditions	Maximum Ratings	
		CSD62	CSD82
I_{dAV}	$T_C = 100^\circ\text{C}$ $T_A = 45^\circ\text{C}$ ($R_{thCA} = 0.6 \text{ K/W}$), module	63	88 A
		48	57 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C};$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine $t = 8.3 \text{ ms}$ (60 Hz), sine	550	750 A
		600	820 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine $t = 8.3 \text{ ms}$ (60 Hz), sine	500	670 A
		550	740 A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine $t = 8.3 \text{ ms}$ (60 Hz), sine	1520	2800 A ² s
		1520	2800 A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine $t = 8.3 \text{ ms}$ (60 Hz), sine	1250	2250 A ² s
		1250	2250 A ² s
T_{VJ}		-40...+150°C	
T_{VJM}		150°C	
T_{stg}		-40...+150°C	
V_{ISOL}	50/60 Hz, RMS $t = 1 \text{ min}$ $I_{ISOL} \leq 1 \text{ mA}$ $t = 1 \text{ s}$	2500 V~ 3600 V~	
M_d	Mounting torque (M5) Terminal connection torque (M5)	5± 15% Nm 5± 15% Nm	
Weight	Typ.	160 g	

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Symbol	Test Conditions	Characteristic Values	
		CSD62	CSD82
IR	VR = VRRM; TVJ = 25°C	≤ 0.3	≤ 0.3 mA
	VR = VRRM; TVJ = TVJM	≤ 5	≤ 5 mA
VF	IF = 150 A; TVJ = 25°C	≤ 1.8	≤ 1.6 V
VTO	For power-loss calculations only	0.8	0.8 V
rT		8	5 mΩ
RthJC	per diode	1.45	1.1 K/W
	per module	0.24	0.183 K/W
RthJH	per diode	1.87	1.52 K/W
	per module	0.31	0.253 K/W
ds	Creeping distance on surface	10	mm
da	Creepage distance in air	9.4	mm
a	Max. allowable acceleration	50	m/s ²

