

Silicon Power Rectifier Assemblies

Plate Heatsink

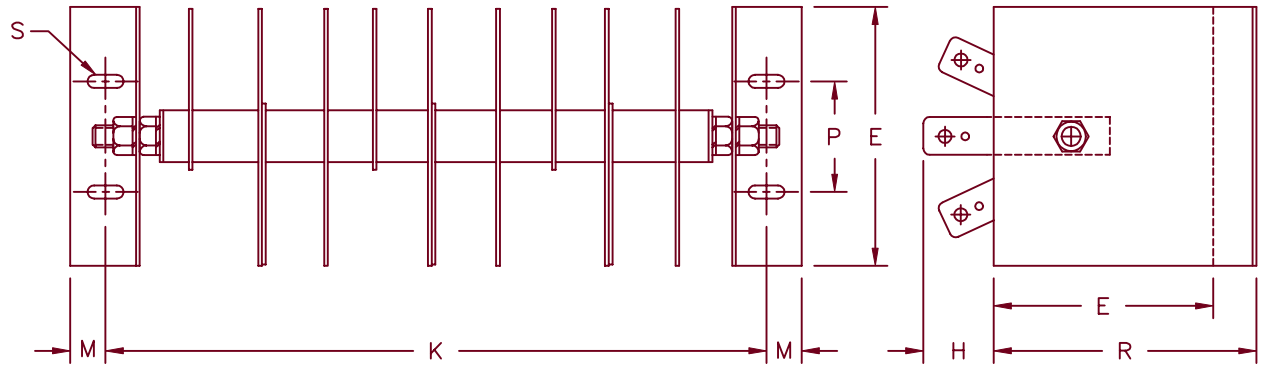
- Complete bridge with heatsinks – no assembly required
- Available in many circuit configurations
- Rated for convection or forced air cooling
- Available with bracket or stud mounting
- Designs include: DO-4, DO-5, DO-8 and DO-9 rectifiers
- Blocking voltages to 1600V

Silicon Power Rectifier Plate Heatsink Assembly Coding System

K		34	20	B	1	E	B	1	S
Size of Heat Sink	Type of Diode	Peak Reverse Voltage	Type of Circuit	Number of Diodes in Series	Type of Finish	Type of Mounting	Number of Diodes in Parallel	Special Feature	
E-2"x2" K-3"x3" G-5"x5" N-7"x7"	21	20-200	Single Phase	Per leg	E-Commercial	B-Stud with brackets or insulating board with mounting bracket N-Stud with no bracket	Per leg	Surge Suppressor	
	34		H-Half Wave						
	37		C-Center Tap Positive						
	43	40-400	N-Center Tap Negative						
	504		D-Doubler						
			B-Bridge						
		60-600	M-Open Bridge						
		80-800	Three Phase						
			Z-Bridge						
			X-Center Tap						
		100-1000	Y-Half Wave DC Positive						
			Q-Half Wave DC Negative						
		120-1200	W-Double WYE						
			V-Open Bridge						
		160-1600							

Series 21, 34 & 37

Plate Heatsink



Notes:

- Current ratings shown are for natural convection cooling resistive or inductive loads for single phase circuits and all loads for three phase circuits
- Use 2.0 times the listed current ratings for forced convection cooling at 1000LFM
- For single phase battery, capacitive, or motor loads: the output current shown below should be derated to 80% of the values shown.
- Assemblies with heat sink sizes other than those shown below are available on request for special applications.

Series 21

Circuit	Size	Dim.	Inches		Millimeters	
			Min.	Max.	Min.	Max.
1Ø Bridge	2x2	K	5.00	5.25	127.0	133.3
1Ø Bridge	3x3	K	5.87	6.12	149.0	155.4
3Ø Bridge	2x2	K	7.25	7.50	184.1	190.5
3Ø Bridge	3x3	K	8.12	8.37	206.2	212.5
Same for both circuits	2x2	M	0.30	0.32	7.62	8.12
		P	0.74	0.76	18.7	19.3
		E	1.99	2.01	50.5	51.0
		R	2.61	2.63	66.2	66.8
		H	0.86	0.88	21.8	22.3
		S	0.56x.28 Nom.		14x7.1 Nom.	
Same for both circuits	3x3	M	0.36	0.38	9.14	9.65
		P	1.49	1.51	37.8	38.3
		E	2.99	3.01	75.9	76.4
		R	3.67	3.69	93.2	93.7
		H	0.99	1.01	25.1	25.6
		S	0.31x.18 Nom.		7.9x4.7 Nom.	

Series 34 & 37

Circuit	Size	Dim.	Inches		Millimeters	
			Min.	Max.	Min.	Max.
1Ø Bridge	3x3	K	5.75	6.25	146.0	158.7
1Ø Bridge	5x5	K	5.75	6.25	146.0	158.7
3Ø Bridge	3x3	K	8.00	8.50	203.2	215.9
3Ø Bridge	5x5	K	8.00	8.50	203.2	215.9
Same for both circuits	3x3	M	0.36	0.38	9.14	9.65
		P	1.49	1.51	37.8	38.3
		E	2.99	3.01	75.9	76.4
		R	3.67	3.69	93.2	93.7
		H	0.99	1.01	25.1	25.6
		S	0.56x.28 Nom.		14x7.1 Nom.	
Same for both circuits	5x5	M	0.36	0.38	9.14	9.65
		P	2.49	2.51	63.2	63.7
		E	4.99	5.01	126.7	127.2
		R	5.99	6.01	152.1	152.6
		H	1.24	1.26	31.4	32.0
		S	0.56x.28 Nom.		14x7.1 Nom.	

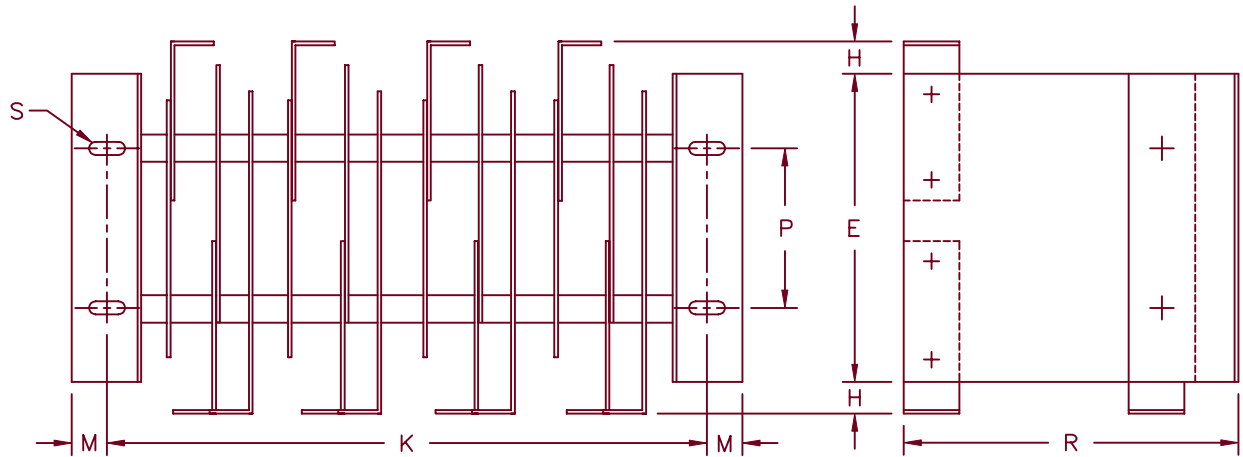
Ratings – Average Circuit Output Current – Amperes

DIODE SERIES	HEAT SINK SIZE (inches)	I _{FSM} AMPS	AMBIENT TEMP. °C	1-PHASE 1/2 WAVE	1-PHASE CTR. TAP	1-PHASE BRIDGE	3-PHASE 1/2 WAVE	3-PHASE BRIDGE	3-PHASE CTR. TAP	3-PHASE DBL.-WYE
21	2x2x1/16	250	40	7.8	15.6	15.6	23.4	23.4	38.1	46.8
21	2x2x1/16	250	70	6.0	12.0	12.0	18.0	18.0	29.3	36.0
21	2x2x1/16	250	100	4.3	8.6	8.6	12.9	12.9	21.0	25.8
21	3x3x1/16	250	40	11.0	22.0	22.0	33.0	33.0	53.8	66.0
21	3x3x1/16	250	70	8.8	17.6	17.6	26.4	26.4	43.0	52.8
21	3x3x1/16	250	100	6.3	12.6	12.6	18.9	18.9	30.8	37.8

Ratings – Average Circuit Output Current – Amperes

DIODE SERIES	HEAT SINK SIZE (inches)	I _{FSM} AMPS	AMBIENT TEMP. °C	1-PHASE 1/2 WAVE	1-PHASE CTR. TAP	1-PHASE BRIDGE	3-PHASE 1/2 WAVE	3-PHASE BRIDGE	3-PHASE CTR. TAP	3-PHASE DBL.-WYE
34	3x3x1/16	800	40	18.0	36.0	36.0	54.0	54.0	88.0	108.0
34	3x3x1/16	800	70	14.5	29.0	29.0	43.5	43.5	70.9	87.0
34	3x3x1/16	800	100	10.5	21.0	21.0	31.5	31.5	51.3	63.0
34	5x5x1/16	800	40	25.5	50.0	50.0	75.0	75.0	122.3	150.0
34	5x5x1/16	800	70	20.2	40.4	40.4	60.6	60.6	98.8	121.2
34	5x5x1/16	800	100	14.5	29.0	29.0	43.5	43.5	70.9	87.0
37	5x5x1/16	1500	40	33.2	67.5	67.5	97.5	97.5	159.0	195.0
37	5x5x1/16	1500	70	26.3	52.5	52.5	78.7	78.7	128.4	157.5
37	5x5x1/16	1500	100	18.8	37.7	37.7	56.5	56.5	92.2	113.1

Series 43 & 504 Plate Heatsink



Notes:

- Current ratings shown are for natural convection cooling resistive or inductive loads for single phase circuits and all loads for three phase circuits
- Use 2.0 times the listed current ratings for forced convection cooling at 1000LFM
- For single phase battery, capacitive, or motor loads: the output current shown below should be derated to 80% of the values shown.
- Assemblies with heat sink sizes other than those shown below are available on request for special applications.

Series 43

Circuit	Size	Dim.	Inches		Millimeters	
			Min.	Max.	Min.	Max.
1Ø Bridge	5x5	K	9.25	9.75	234.9	247.6
1Ø Bridge	7x7	K	9.25	9.75	234.9	247.6
3Ø Bridge	5x5	K	13.0	13.5	330.2	342.9
3Ø Bridge	7x7	K	13.0	13.5	330.2	342.9
Same for both circuits	5x5	M	0.36	0.38	9.14	9.65
		P	2.49	2.51	63.2	63.7
		E	4.99	5.01	126.7	127.2
		R	5.99	6.01	152.1	152.6
		H	0.98	1.00	25.1	25.6
		S	0.56x0.28 Nom.		14x7.1 Nom.	
Same for both circuits	7x7	M	0.36	0.38	9.14	9.65
		P	3.74	3.76	94.9	95.5
		E	6.99	7.01	177.5	178.0
		R	7.99	8.01	202.9	203.4
		H	0.98	1.00	25.1	25.6
		S	0.31x0.18 Nom.		7.9x4.7 Nom.	

Series 504

Circuit	Size	Dim.	Inches		Millimeters	
			Min.	Max.	Min.	Max.
1Ø Bridge	5x5	K	10.5	11.0	266.7	279.4
1Ø Bridge	7x7	K	10.5	11.0	266.7	279.4
3Ø Bridge	5x5	K	15.0	15.5	381.0	393.7
3Ø Bridge	7x7	K	15.0	15.5	381.0	393.7
Same for both circuits	5x5	M	0.36	0.38	9.14	9.65
		P	2.49	2.51	63.2	63.7
		E	4.99	5.01	126.7	127.2
		R	5.99	6.01	152.1	153.6
		H	0.98	1.00	24.8	25.4
		S	0.56x0.28 Nom.		14x7.1 Nom.	
Same for both circuits	7x7	M	0.36	0.38	9.14	9.65
		P	3.74	3.76	94.9	95.5
		E	6.99	7.01	177.5	178.0
		R	7.99	8.01	202.9	203.4
		H	0.98	1.00	24.8	25.4
		S	0.56x0.28 Nom.		14x7.1 Nom.	

Ratings – Average Circuit Output Current – Amperes

DIODE SERIES	HEAT SINK SIZE (inches)	I _{FSM} AMPS	AMBIENT TEMP. °C	1-PHASE 1/2 WAVE	1-PHASE CTR. TAP	1-PHASE BRIDGE	3-PHASE 1/2 WAVE	3-PHASE BRIDGE	3-PHASE CTR. TAP	3-PHASE DBL. – WYE
43	5x5x1/8	2500	40	42.0	84.0	84.0	126.0	126.0	205.4	252.0
43	5x5x1/8	2500	70	32.0	64.0	64.0	96.0	96.0	156.5	192.0
43	5x5x1/8	2500	100	24.0	48.0	48.0	72.0	72.0	117.4	144.0
43	7x7x1/8	2500	40	52.0	104.0	104.0	156.0	156.0	254.3	312.0
43	7x7x1/8	2500	70	40.0	80.0	80.0	120.0	120.0	195.6	240.0
43	7x7x1/8	2500	100	28.0	56.0	56.0	84.0	84.0	137.0	168.0

Ratings – Average Circuit Output Current – Amperes

DIODE SERIES	HEAT SINK SIZE (inches)	I _{FSM} AMPS	AMBIENT TEMP. °C	1-PHASE 1/2 WAVE	1-PHASE CTR. TAP	1-PHASE BRIDGE	3-PHASE 1/2 WAVE	3-PHASE BRIDGE	3-PHASE CTR. TAP	3-PHASE DBL. – WYE
504	5x5x1/8	5500	40	62.0	124.0	124.0	186.0	186.0	303.0	372.0
504	5x5x1/8	5500	70	47.0	94.0	94.0	141.0	141.0	230.0	282.0
504	5x5x1/8	5500	100	33.0	66.0	66.0	99.0	99.0	161.0	198.0
504	7x7x1/4	5500	40	81.0	162.0	162.0	243.0	243.0	396.0	486.0
504	7x7x1/4	5500	70	63.0	126.0	126.0	189.0	189.0	308.0	378.0
504	7x7x1/4	5500	100	45.0	90.0	90.0	135.0	135.0	220.0	270.0



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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