CR101 to CR110

High-Voltage Silicon Rectifiers

With Integral R-C Voltage-Equalizing Networks

HIGH-VOLTAGE, SERIES-CONNECTED, DIFFUSED-JUNCTION TYPES
MOLDED INTO COMPACT CASE OF INSULATING MATERIAL
1265 to 10,130 PRV HERMETICALLY SEALED

For Industrial and Military Equipment

HALF-WAVE RECTIFIER SERVICE ←

For power-supply frequency of 60 c/s, single-phase operation, and with resistive or inductive load

RCA Type	Absolute-Maximum Voltage Ratings *at free-air temperature range of -65° to 125°C*				
	Peak Reverse Voltage			RMS Supply Voltage volts	DC Blocking Voltage volts
	Repetitive volts	Non-repetitive (Transient)[a] volts *60° to 125°C*			
CR101	1265	1520	↑ Below 60°C See Rating Chart ↓	895	1265
CR102	2530	3035		1790	2530
CR103	3165	3800		2240	3165
CR104	4430	5315		3130	4430
CR105	5065	6080		3580	5065
CR106	6330	7600		4475	6330
CR107	7595	9115		5370	7595
CR108	8230	9875		5820	8230
CR109	9495	11395		6710	9495
CR110	10130	12155		7160	10130

RCA Type	Absolute-Maximum Current Ratings *at free-air temperature range of -65° to 125°C*					
	Forward Current Average (DC)			Peak Recurrent Current A	Peak Surge Current[b]	
	at 60°C mA	at 100°C mA			1/2-Cycle Sine-Wave A	
CR101	1000	385	↑ Above 60°C See Rating Chart ↓	↑ 5 ↓	↑ 20 ↓	↑ 1 Cycle or Greater See Rating Chart ↓
CR102	925	355				
CR103	825	315				
CR104	700	270				
CR105	700	270				
CR106	650	250				
CR107	600	230				
CR108	600	230				
CR109	600	230				
CR110	600	230				

← Indicates a change.

HALF-WAVE RECTIFIER SERVICE

For power-supply frequency of 60 c/s, single-phase operation, and with resistive or inductive load

Characteristics

RCA Type	Forward Voltage Drop[c]		Max. Reverse Current		Shunt Capacitance	
	Max. volts	Instantaneous volts	Dynamic[d] mA	Static[e] mA	Max. pF	Min. pF
CR101	1.2	↑	↑	↑	600	350
CR102	2.4	↑	↑	↑	320	175
CR103	3	See *Typical Instantaneous Forward Characteristics* Curves	↑	↑	250	140
CR104	4.2	See *Typical Instantaneous Forward Characteristics* Curves	↑	↑	175	100
CR105	4.8	See *Typical Instantaneous Forward Characteristics* Curves	↑	↑	160	85
CR106	6	See *Typical Instantaneous Forward Characteristics* Curves	0.3	0.6	125	70
CR107	7.2	See *Typical Instantaneous Forward Characteristics* Curves	↓	↓	105	60
CR108	7.8	See *Typical Instantaneous Forward Characteristics* Curves	↓	↓	100	55
CR109	9	See *Typical Instantaneous Forward Characteristics* Curves	↓	↓	90	45
CR110	9.6	↓	↓	↓	80	40

[a] For duration of 5 milliseconds maximum.

[b] Superimposed on device operating within the maximum specified voltage, current, and temperature ratings and may be repeated after sufficient time has elapsed for the device to return to the presurge thermal-equilibrium conditions.

[c] Maximum full-cycle average forward voltage drop at maximum rated operating conditions.

[d] Maximum reverse current averaged over one complete cycle and for operation at the maximum ratings. For example, for the CR101 at 60°C free-air temperature: average forward milliamperes = 1000; peak reverse volts = 1265.

[e] At maximum rated dc blocking voltage and any temperature within the operating temperature range.

ENVIRONMENTAL TESTS

RCA CR101 through CR110 rectifiers are designed to meet the following rigorous environmental tests:

Moisture Resistance

MIL-STD-202B, method 106A
MIL-S-19500B, paragraph 40.6

Salt Spray (Corrosion)

MIL-STD-202B, method 101A, Condition A
(Length of test — 96 hours)
MIL-S-19500B, paragraph 40.9

Shock

MIL-STD-202B, method 202A
MIL-S-19500B, paragraph 40.10
The device is subjected to 5 blows in each of the orientations X_1, Y_1, and Z_1, with an acceleration of 50 G and a duration of approximately 11 milliseconds.

→ Indicates a change.

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Electronic Components and Devices Harrison, N. J.

Vibration Fatigue

MIL-S-19500B, paragraph 40.18

The device is subjected to a simple harmonic motion at any single frequency between 40 and 100 c/s with a constant peak acceleration of 20 G. The vibration shall be applied for 32 hours minimum in each of the orientations X_1, Y_1, and Z_1 (a total of 96 hours minimum).

Vibration, Variable Frequency

MIL-S-19500B, paragraph 40.20

Temperature Cycling

MIL-STD-202B, method 102A, Condition C
MIL-S-19500B, paragraph 40.14

Barometric Pressure

MIL-STD-202B, method 105B, Condition A
(Operation at altitude of 30,000 feet)
MIL-S-19500B, paragraph 40.1

OPERATING CONSIDERATIONS

RCA CR101 through CR110 high-voltage silicon rectifiers may be *mounted in any position*. It is recommended, however, that wherever possible these rectifiers be mounted on vertical surfaces to prevent accumulation of dust on the surfaces between the rectifier terminals.

A *surge-limiting impedance* should always be used in series with these rectifiers. The impedance value must be sufficient to limit the surge current to the value specified under the maximum ratings. This impedance may be provided by the power transformer windings, or by an external resistor or choke.

Each rectifier is coated with an epoxy phenolic resin to increase its resistance to moisture and humidity, to increase thermal radiation, and to improve voltage isolation.

When several of these rectifiers are *operated in series* across a supply voltage of 20,000 volts peak or more, the protection afforded by the integral voltage-equalizing networks may not be adequate, depending on the circuit arrangement and the physical layout of the components. Consequently, additional protection against high transient voltages may be required in the design of the equipment. For additional information on this subject, write to RCA, Commercial Engineering, Harrison, New Jersey.

RCA CR101 through CR110 are designed to operate at full ratings at altitudes up to 30,000 feet. For operation at altitudes above 10,000 feet, it is recommended that sufficient spacing be provided between rectifiers and between rectifiers and other components (including the chassis and enclosure) to prevent corona. If the applied voltage exceeds 5500 volts peak, the rectifiers should be mounted on standoff insulators at least 1-1/2 inches high.

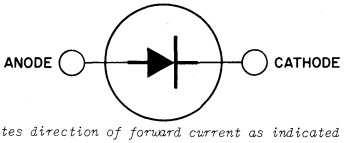
Connections to the solder terminals of these rectifiers should be made with No. 16AWG (or smaller diameter) wire. Care should be exercised during the soldering operation to prevent

overheating of the rectifier terminals. A clean, well-tinned iron is recommended to keep soldering time to a minimum.

During a period of prolonged heating: for example, during lead unwrapping, a heat sink such as the jaws of a pair of long-nose pliers should be used between the tip of the soldering iron and the rectifier case.

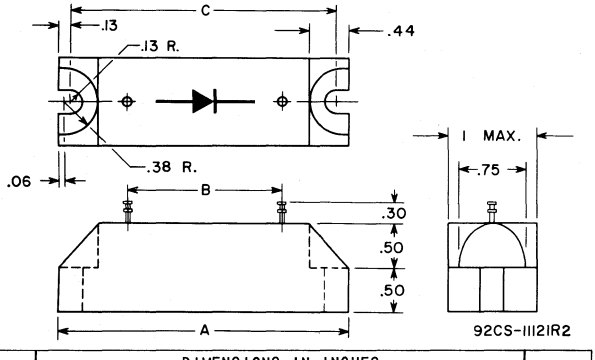
Because these rectifiers operate at voltages which are dangerous, care should be taken in the design and operation of the equipment to prevent personnel from coming in contact with the rectifiers.

TERMINAL DIAGRAM FOR ALL TYPES



The arrow indicates direction of forward current as indicated by dc ammeter.

DIMENSIONAL OUTLINE (Dimensions in Inches)



RCA Type	DIMENSIONS IN INCHES			Weight
	A Maximum Overall Length	B Nominal Spacing Between Terminals	C Distance Between Centers of Mounting Holes*	OZ
CR101	2-3/8	1-1/8	2-1/8	2.0
CR102	2-3/8	1-1/8	2-1/8	2.0
CR103	2-3/8	1-1/8	2-1/8	2.1
CR104	3-1/4	1-3/4	3	3.0
CR105	3-1/4	1-3/4	3	3.1
CR106	4-1/2	3-1/4	4-1/4	4.2
CR107	4-1/2	3-1/4	4-1/4	4.4
CR108	4-1/2	3-1/4	4-1/4	4.5
CR109	5-1/2	4	5-1/4	5.4
CR110	5-1/2	4	5-1/4	5.5

* For 1/4-inch bolts.

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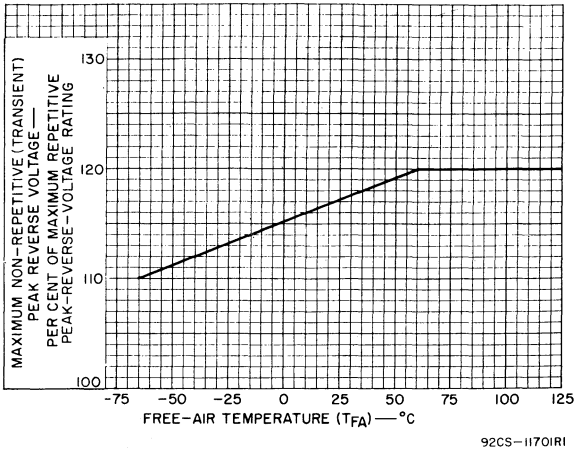
Electronic Components and Devices Harrison, N. J.

Peak-Reverse-Voltage Non-Repetitive Rating Chart

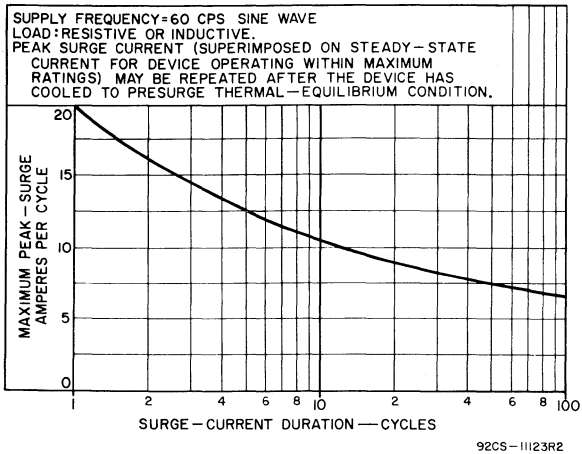
CR101 through CR110



92CS-11701R1

Peak-Surge-Current Rating Chart

CR101 through CR110



92CS-11123R2

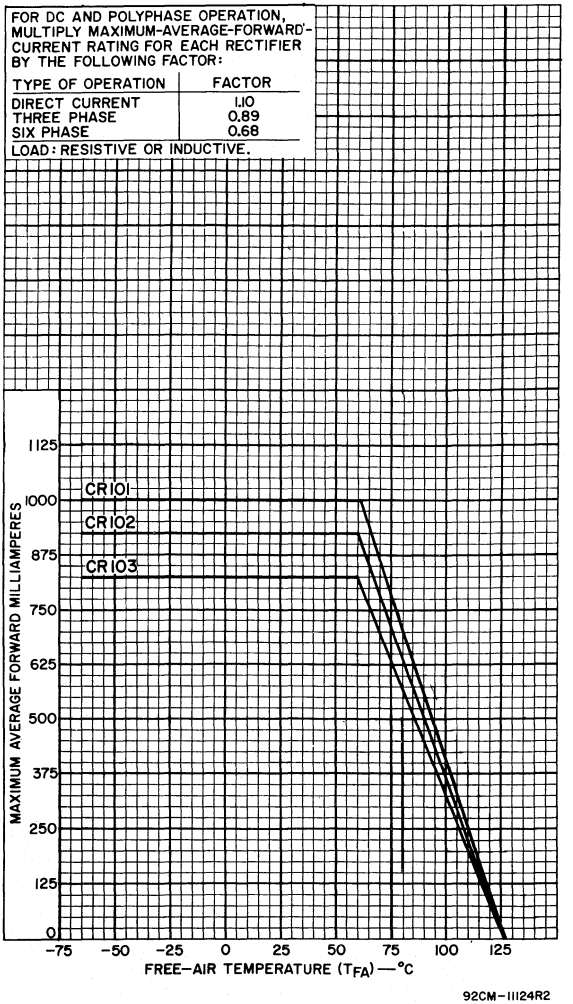
Average-Forward-Current Rating Chart

For DC, 60-c/s Single-Phase & Polyphase Operating
CR101 through CR103

FOR DC AND POLYPHASE OPERATION, MULTIPLY MAXIMUM-AVERAGE-FORWARD-CURRENT RATING FOR EACH RECTIFIER BY THE FOLLOWING FACTOR:

TYPE OF OPERATION	FACTOR
DIRECT CURRENT	1.10
THREE PHASE	0.89
SIX PHASE	0.68

LOAD: RESISTIVE OR INDUCTIVE.



92CM-11124R2

RADIO CORPORATION OF AMERICA
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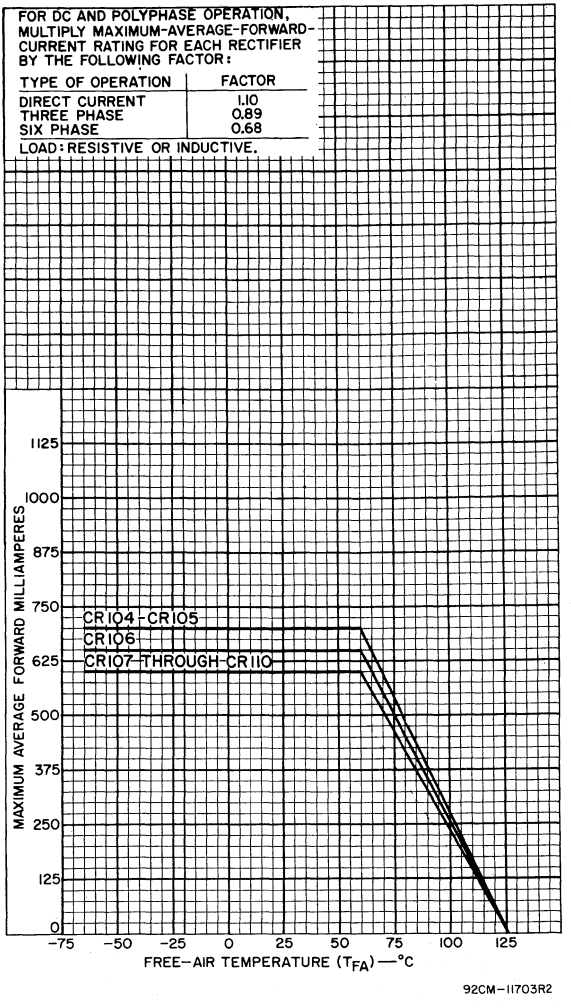
Average-Forward-Current Rating Chart

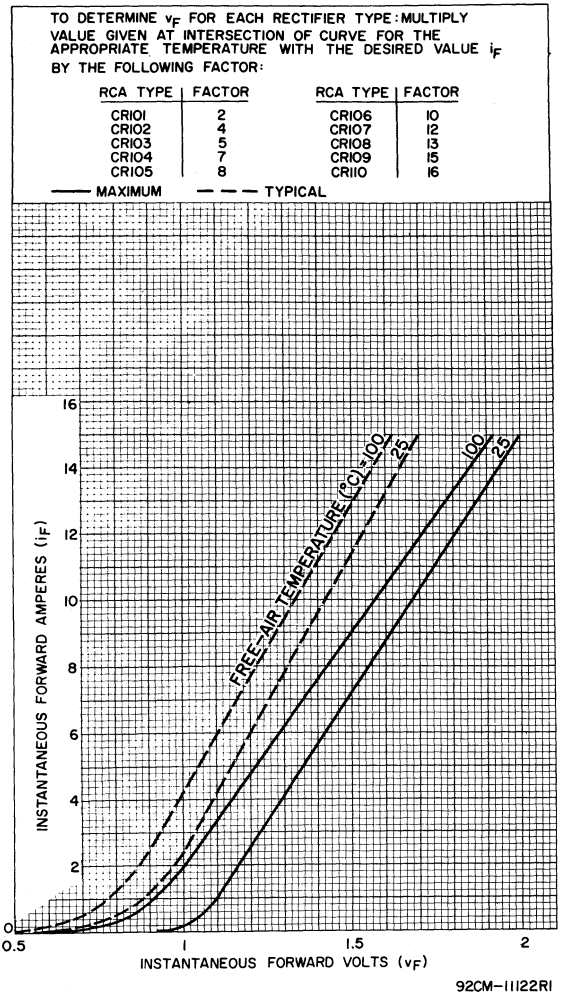
For DC, 60-c/s Single-Phase & Polyphase Operation
CR104 through CR110



92CM-11703R2

Typical Instantaneous Forward Characteristics Curves

CR101 through CR110



92CM-11122RI

RADIO CORPORATION OF AMERICA
Electronic Components and Devices Harrison, N. J.

CR201,CR203,CR204,CR206, CR208,CR210,CR212

High-Voltage Silicon Rectifiers

With Precisely Matched Cells For Internal Voltage Equalization

HIGH-VOLTAGE, SERIES-CONNECTED, DIFFUSED-JUNCTION TYPES
MOLDED INTO COMPACT CASE OF INSULATING MATERIAL
900 to 12,000 PRV HERMETICALLY SEALED

For Industrial and Military Equipment

HALF-WAVE RECTIFIER SERVICE

For power-supply frequency of 60 c/s, single-phase operation, and with resistive or inductive load

RCA Type	Absolute-Maximum Voltage Ratings at free-air temperature range of -65° to 125°C				
	Peak Reverse Voltage			RMS Supply Voltage	DC Blocking Voltage
	Repetitive volts	Non-repetitive (Transient)[a] volts 60° to 125°C		volts	volts
CR201	1900	2280	↑ Below 60°C See Rating Chart ↓	1345	1900
CR203	3165	3800		2240	3165
CR204	4800	5760		3395	4800
CR206	6330	7600		4475	6330
CR208	8000	9600		5655	8000
CR210	10000	12000		7070	10000
CR212	12000	14400		8485	12000

RCA Type	Absolute-Maximum Current Ratings at free-air temperature range of -65° to 125°C					
	Forward Current			Peak Recurrent Current A	Peak Surge Current[b]	
	Average (DC)				1/2-Cycle Sine Wave A	↑ 1 Cycle or Greater See Rating Chart ↓
	at 60°C mA	at 100°C mA	↑ Above 60°C See Rating Chart ↓			
CR201 CR203 CR204 CR206 CR208 CR210 CR212	↑ 400 ↓	↑ 155 ↓		↑ 3 ↓	↑ 10 ↓	

← Indicates a change.

CR201, CR203, CR204, CR206, CR208, CR210, CR212

HALF-WAVE RECTIFIER SERVICE

For power-supply frequency of 60 c/s, single-phase operation, and with resistive or inductive load

RCA Type	Characteristics			
	Forward Voltage Drop[c]		Max. Reverse Current	
	Max. volts	Instantaneous volts	Dynamic[d] mA	Static[e] mA
CR201 CR203 CR204 CR206 CR208 CR210 CR212	1.8 3 3.6 6 6 7.2 9	↑ See *Instantaneous Forward Characteristics* Curves ↓	↑ 0.1 at T_{FA} = 100°C ↓	↑ 0.01 at T_{FA} = 25°C 0.2 at T_{FA} = 100°C ↓

[a] For duration of 5 milliseconds maximum.

[b] Superimposed on device operating within the maximum specified voltage, current, and temperature ratings and may be repeated after sufficient time has elapsed for the device to return to the presurge thermal-equilibrium conditions.

[c] Maximum full-cycle average forward voltage drop at maximum rated operating conditions.

[d] Maximum reverse current averaged over one complete cycle and for operation at the maximum ratings. For example, for the CR201 at 60°C free-air temperature: average forward milliamperes = 400; peak reverse volts = 1900.

[e] At maximum rated dc blocking voltage and any temperature within the operating temperature range.

OPERATING CONSIDERATIONS

A *surge-limiting impedance* should always be used in series with the rectifier. The impedance value must be sufficient to limit the surge current to the value specified under t maximum ratings. This impedance may be provided by the pow transformer windings, or by an external resistor or choke.

Because these rectifiers operate at voltages which are dangerous, care should be taken in the design and operation of the equipment to prevent personnel from coming in contact with the rectifiers.

Care should be exercised during soldering of the wi leads of these rectifiers to prevent overheating of the rect fier cells. A clean, well-tinned iron should be used to keep soldering time to a minimum.

During a period of prolonged heating—for example, during lead unwrapping—a heat sink such as the jaws of a pair of long-nose pliers should be used between the tip of the solder-ing iron and the rectifier case.

→ Indicates a change.

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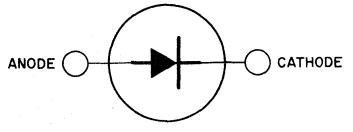
CR201, CR203, CR204, CR206, CR208, CR210, CR212

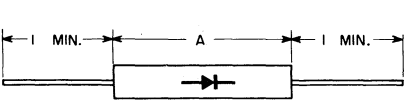
RCA CR201 through CR212 rectifiers should not be used in series arrangements to obtain dc output voltages higher than those obtainable from single units. For information on special precision-matched units for use in such series arrangements, contact your nearest RCA Field Office.

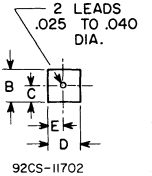
TERMINAL DIAGRAM FOR ALL TYPES



The arrow indicates direction of forward current as indicated by dc ammeter.

DIMENSIONAL OUTLINE





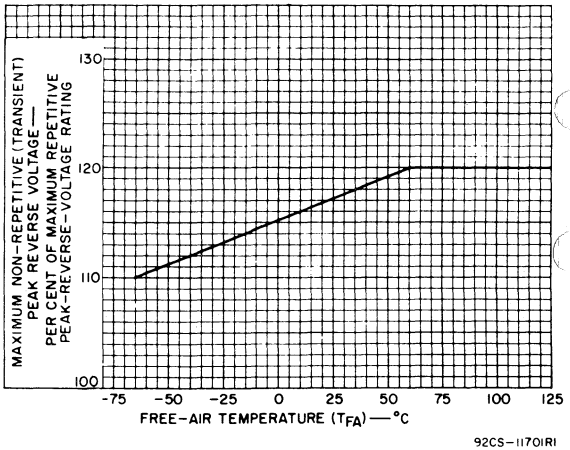
92CS-11702

DIMENSIONS IN INCHES

RCA Type	DIMENSIONS IN INCHES					Weight oz
	A	B	C	D	E	
CR201	2	3/8	3/16	3/8	3/16	0.32
CR203	3-1/2	3/8	3/16	3/8	3/16	0.55
CR204	4-1/2	3/8	3/16	3/8	3/16	0.73
CR206	3-1/2	3/8	3/16	3/4	3/8	1.20
CR208	3-1/2	3/8	3/16	3/4	3/8	1.20
CR210	4-1/2	3/8	3/16	3/4	3/8	1.60
CR212	4-1/2	3/8	3/16	3/4	3/8	1.60

Peak-Reverse-Voltage Non-Repetitive Rating Cha

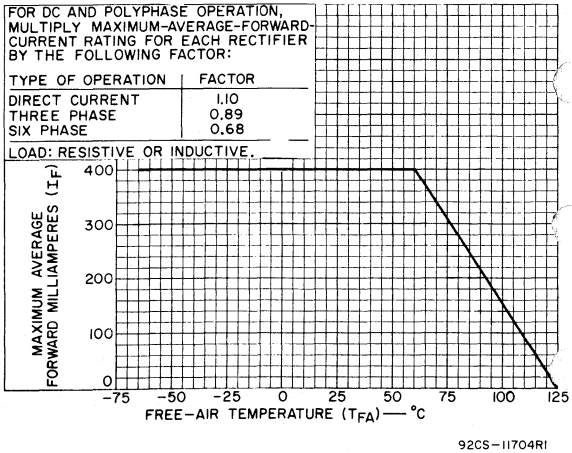
CR201 through CR212



92CS-11701RI

Average-Forward-Current Rating Chart

For DC, 60-c/s Single-Phase & Polyphase Operation
CR201 through CR212



92CS-11704RI

RADIO CORPORATION OF AMERICA
Electronic Components and Devices
Harrison, N. J.

Typical Instantaneous Forward Characteristics

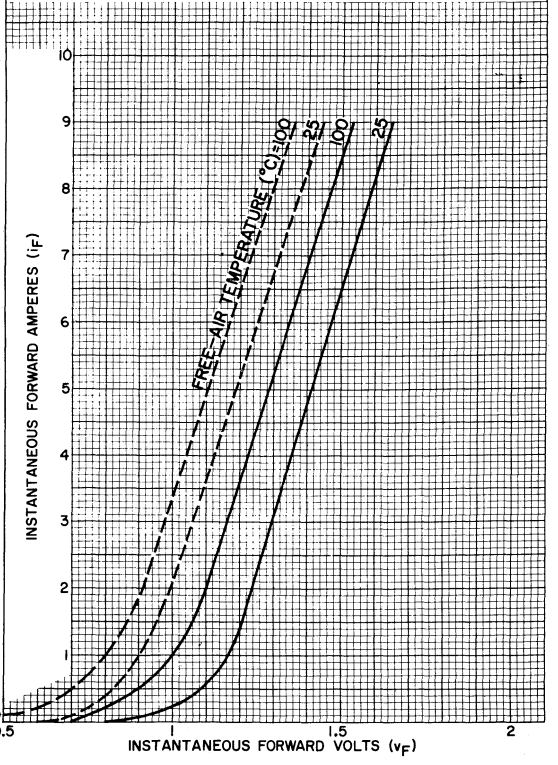
CR201 through CR212

TO DETERMINE v_F FOR EACH RECTIFIER TYPE: MULTIPLY VALUE GIVEN AT INTERSECTION OF CURVE FOR THE APPROPRIATE TEMPERATURE WITH THE DESIRED VALUE OF i_F BY THE FOLLOWING FACTOR:

RCA TYPE	FACTOR
CR201	3
CR203	5
CR204	6
CR206	10
CR208	10
CR210	12
CR212	15

——— MAXIMUM

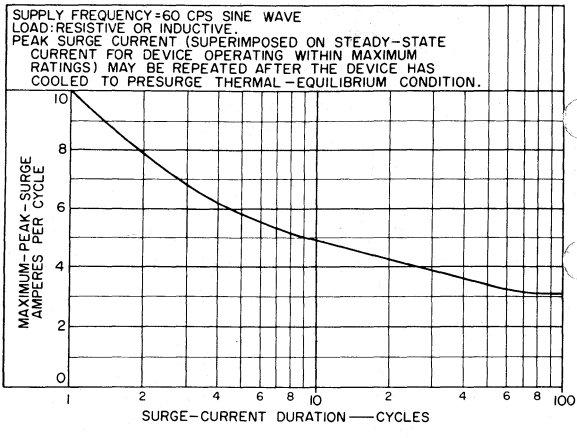
— — — TYPICAL



92CM-11707RI

Peak Surge-Current Rating Chart

CR201 through CR212



92CS-11706RI

RADIO CORPORATION OF AMERICA
Electronic Components and Devices Harrison, N. J.

CR301 to CR354

(Not Inclusive)

Silicon Rectifiers

With Integral R-C Voltage-Equalizing Networks

HIGH-VOLTAGE, SERIES-CONNECTED, DIFFUSED-JUNCTION TYPES
FIN MOUNTED **HERMETICALLY SEALED**

For Industrial and Military Equipment

HALF-WAVE RECTIFIER

For power-supply frequency of 60 cps, single-phase operation, and with resistive or inductive load

RCA Type	No. of Cells	Absolute-Maximum Voltage Ratings at free-air temperature range of -55° to 125° C			
		Peak Reverse Voltage		RMS Supply Voltage	DC Blocking Voltage
		Repetitive volts	Non-repetitive (Transient)[a] volts	volts	volts
CR301	4	2400	2880	1695	2400
CR302	6	3600	4320	2545	3600
CR303	8	4800	5760	3395	4800
CR304	10	6000	7200	4240	6000
CR305	12	7200	8640	5090	7200
CR306	14	8400	10080	5935	8400
CR307	16	9600	11520	6785	9600
CR311	4	2400	2880	1695	2400
CR312	6	3600	4320	2545	3600
CR313	8	4800	5760	3395	4800
CR314	10	6000	7200	4240	6000
CR315	12	7200	8640	5090	7200
CR316	14	8400	10080	5935	8400
CR317	16	9600	11520	6785	9600
CR321	4	2400	2880	1695	2400
CR322	6	3600	4320	2545	3600
CR323	8	4800	5760	3395	4800
CR324	10	6000	7200	4240	6000
CR325	12	7200	8640	5090	7200
CR331	4	2400	2880	1695	2400
CR332	6	3600	4320	2545	3600
CR333	8	4800	5760	3395	4800
CR334	10	6000	7200	4240	6000
CR335	12	7200	8640	5090	7200
CR341	4	2400	2880	1695	2400
CR342	6	3600	4320	2545	3600
CR343	8	4800	5760	3395	4800
CR344	10	6000	7200	4240	6000
CR351	4	2400	2880	1695	2400
CR352	6	3600	4320	2545	3600
CR353	8	4800	5760	3395	4800
CR354	10	6000	7200	4240	6000

[a] For duration of 5-milliseconds maximum at free-air temperature range of +50° to +125° C; at other free-air temperatures see accompanying *Peak-Transient Reverse-Voltage Rating Chart.*

CR301 to CR354

(Not Inclusive)

HALF-WAVE RECTIFIER

For power-supply frequency of 60 cps, single-phase operation, and with resistive or inductive load

RCA Type	Absolute-Maximum Current Ratings at free-air temperature range of -55° to 125° C				
	Forward Current			Peak Surge Current[c]	
	Average (DC)[b]		RMS	1/2-cycle sine wave	1 cycle or greater
	at 50° C amp	at 100° C amp	amp	amp	amp
CR301 CR302 CR303 CR304 CR305 CR306 CR307	5	2.5	1.57 x Aver. (DC) Forward Amperes	250	See Peak-Surge-Current Rating Chart
CR311 CR312 CR313 CR314 CR315 CR316 CR317	9	4.5		250	
CR321 CR322 CR323 CR324 CR325	12	6		400	
CR331 CR332 CR333 CR334 CR335	17	8.5		400	
CR341 CR342 CR343 CR344	23	11.5		850	
CR351 CR352 CR353 CR354	35	17.5		850	

[b] At other free-air temperatures and forced-air cooling see *Average-Forward-Current Rating Chart and Forced-Air Cooling Rating Chart.*

[c] Superimposed on device operating within the maximum specified voltage, current, and temperature ratings and may be repeated after sufficient time has elapsed for the device to return to the presurge thermal-equilibrium conditions.

HALF-WAVE RECTIFIER

For power-supply frequency of 60 cps, single-phase operation, and with resistive or inductive load

Characteristics:

The following values apply to all the rectifiers shown under Absolute-Maximum Voltage and Current Ratings

Instantaneous Forward Voltage Drop	See *Instantaneous Forward Characteristics Curve*	
Maximum Reverse Current:		
Dynamic (Averaged over one complete cycle at maximum ratings)	1.5	ma
Static (At maximum rated dc blocking voltage and any temperature within the operating temperature range)	2	ma
Typical Cell Shunt Capacitance	0.01	μf

OPERATING CONSIDERATIONS

RCA CR301 to CR354 (not inclusive) high-voltage silicon rectifiers may be *mounted in any position*. It is recommended, however, that wherever possible these rectifiers be mounted on vertical surfaces to prevent accumulation of dust on the surfaces between the rectifier cells and to permit the maximum flow of cooling air.

A *surge-limiting impedance* should always be used in series with these rectifiers. The impedance value must be sufficient to limit the surge current to the value specified under the maximum ratings. This impedance may be provided by the power transformer windings, or by an external resistor or choke.

Each rectifier is coated with an epoxy phenolic resin to increase its resistance to moisture and humidity, to increase thermal radiation, and to improve voltage isolation.

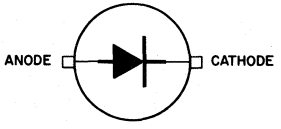
When several of these rectifiers are *operated in series* across a supply voltage of 20,000 volts peak or more, the protection afforded by the integral voltage-equalizing networks may not be adequate, depending on the circuit arrangement and the physical layout of the components. Consequently, additional protection against high transient voltages may be required in the design of the equipment.

Because these rectifiers operate at *voltages which are dangerous*, care should be taken in the design and operation of the equipment to prevent personnel from coming in contact with the rectifiers.

CR301 to CR354

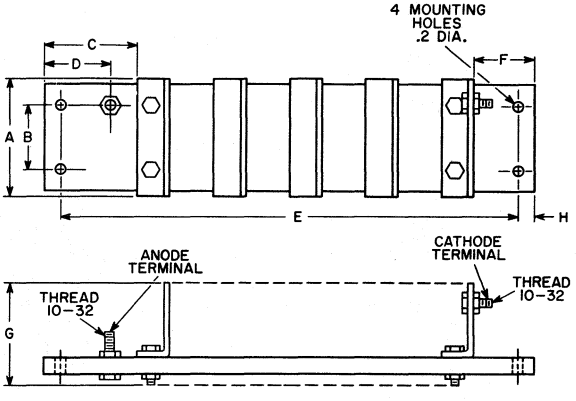
(Not Inclusive)

Terminal Diagram
For All Types



The arrow indicates direction of forward current flow as indicated by dc ammeter.

DIMENSIONAL OUTLINE



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DIMENSIONS IN INCHES								
	A	B	C	D	E	F	G	H
CR301 to CR307	2-1/4	1-5/8	2-1/32	1-5/16	See "E" Below	15/16	2	7/16
CR311 to CR317	2-1/4	1-5/8	2-1/32	1-5/16		15/16	2	7/16
CR321 to CR325	3	1-7/8	2-3/4	1-3/4		1-3/8	3-3/8	9/16
CR331 to CR335	3	1-7/8	2-3/4	1-3/4		1-3/8	3-3/8	9/16
CR341 to CR344	5-1/2	4	3	1-29/32		1-17/32	5-3/8	5/8
CR351 to CR354	5-1/2	4	3	1-29/32		1-17/32	5-3/8	5/8

Dimension E

Type	E	Type	E	Type	E	Type	E
CR301	5-1/4	CR312	7	CR323	11-7/8	CR341	7-11/16
CR302	7	CR313	8-3/4	CR324	14-1/4	CR342	10-1/4
CR303	8-3/4	CR314	10-1/2	CR325	16-5/8	CR343	12-13/16
CR304	10-1/2	CR315	12-1/4	CR331	7-1/8	CR344	15-3/8
CR305	12-1/4	CR316	14	CR332	9-1/2	CR351	7-11/16
CR306	14	CR317	15-3/4	CR333	11-7/8	CR352	10-1/4
CR307	15-3/4	CR321	7-1/8	CR334	14-1/4	CR353	12-13/16
CR311	5-1/4	CR322	9-1/2	CR335	16-5/8	CR354	15-3/8

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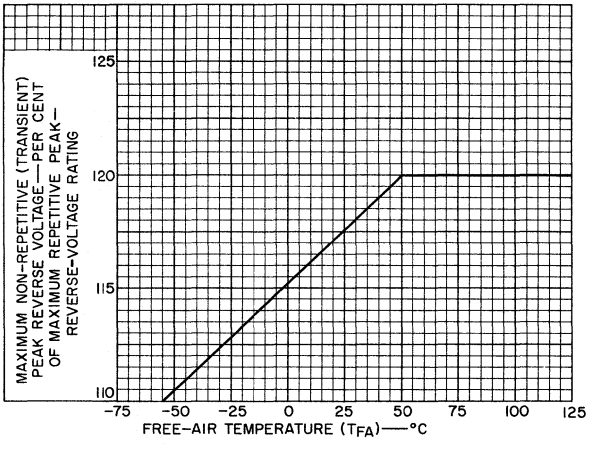
Peak-Transient Reverse-Voltage Rating Chart



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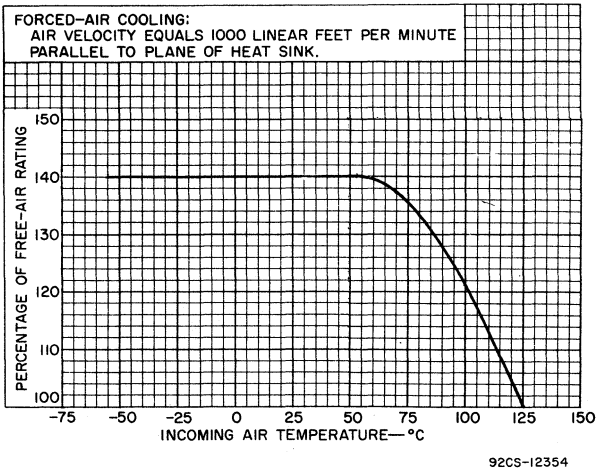
Forced-Air Cooling Rating Chart



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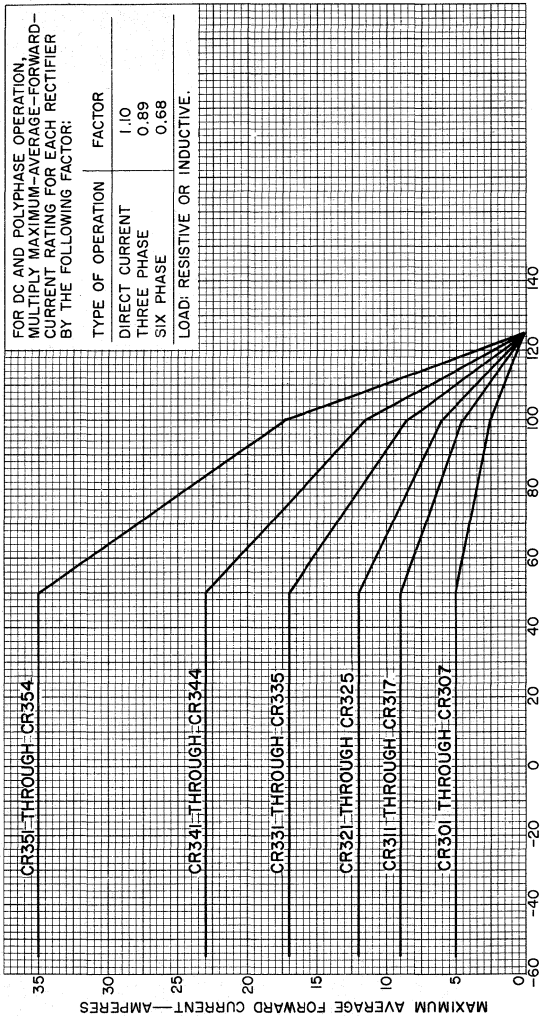
CR301 to CR354

(Not Inclusive)

Average-Forward-Current Rating Chart



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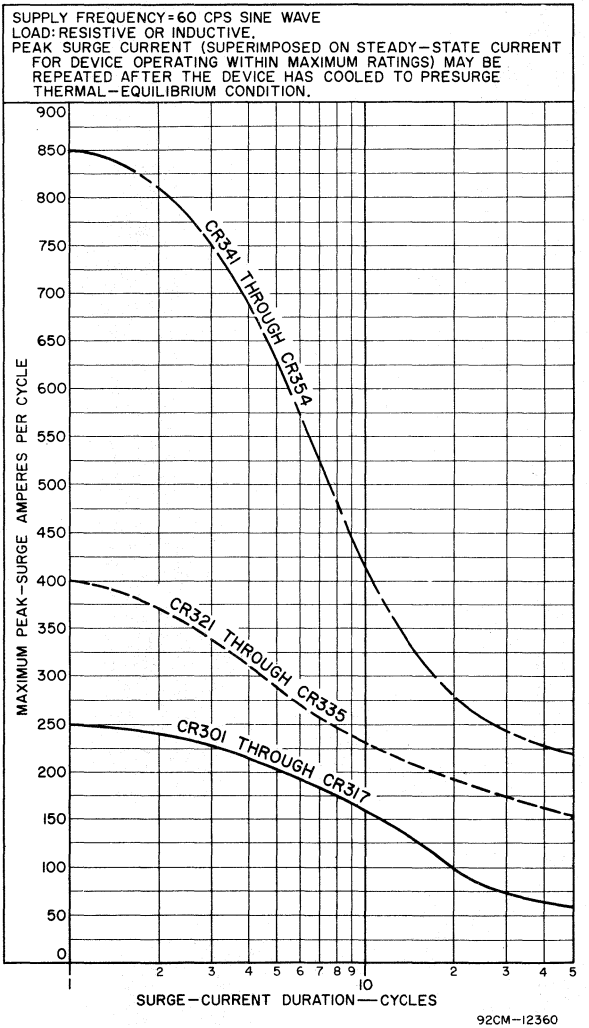
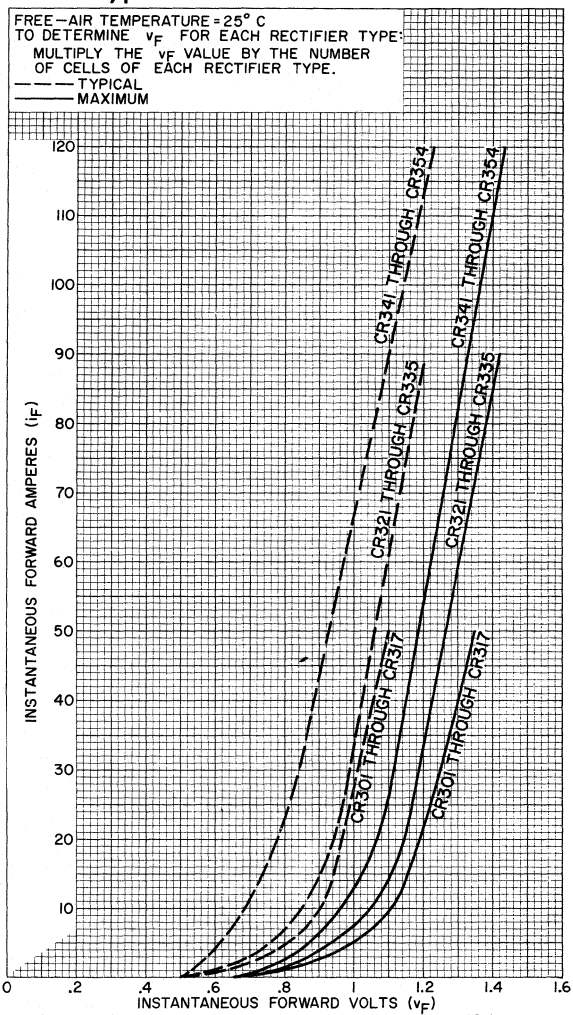
Peak-Surge-Current Rating Chart



CR301 to CR354

(Not Inclusive)

Instantaneous Forward Characteristics
Typical and Maximum Values



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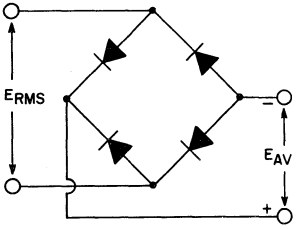
CR401 to CR409

Silicon-Rectifier Bridges

FIN-MOUNTED, FULL-WAVE RECTIFIER BRIDGES

For Electron Tube Plate, Screen, and Bias Voltages; TV and Radio Broadcast Station Power Supplies; Radar; Induction Heating Units; and Resistance-Welder Controls

Single-Phase Full-Wave Bridge[a]



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CR401 SERIES (Single-phase)

RCA Type	Average DC Output Amperes	Average DC Output Volts (E_{AV})	RMS Supply Volts (E_{RMS})
CR401	18	200	222
CR402	18	400	444
CR403	18	800	888
CR404	34	200	222
CR405	34	400	444
CR406	34	800	888
CR407	70	200	222
CR408	70	400	444
CR409	70	800	888

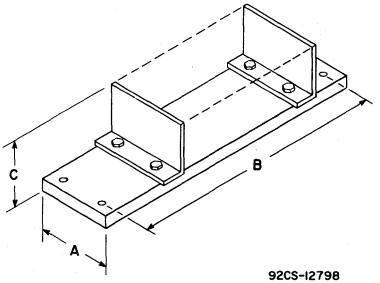
[a] Refer to *RECTIFIER CIRCUITS AND CHARACTERISTICS CHART*, in General Section for circuit applications of bridge rectifiers.

DIMENSIONS IN INCHES
(See *Dimensional Outline*)

CR401 SERIES

RCA Type	A	B	C
CR401	2-1/4	5-1/4	2
CR402	2-1/4	5-1/4	2
CR403	2-1/4	8-3/4	2
CR404	3	7-1/8	3-3/8
CR405	3	7-1/8	3-3/8
CR406	3	11-7/8	3-3/8
CR407	5-1/2	7-11/16	5-3/8
CR408	5-1/2	7-11/16	5-3/8
CR409	5-1/2	12-13/16	5-3/8

DIMENSIONAL OUTLINE



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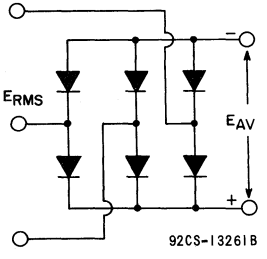
CR501 to CR506

Silicon-Rectifier Bridges

FIN-MOUNTED, FULL-WAVE RECTIFIER BRIDGES

For Electron Tube Plate, Screen, and Bias Voltages; TV and Radio Broadcast Station Power Supplies; Radar; Induction Heating Units; and Resistance-Welder Controls

Three-Phase Full-Wave Bridge[a]



CR501 SERIES (Three-Phase)

RCA Type	Average DC Output Amperes	Average DC Output Volts	RMS Supply Volts
CR501	24	300	222
CR502	24	600	444
CR503	46	300	222
CR504	46	600	444
CR505	92	300	222
CR506	92	600	444

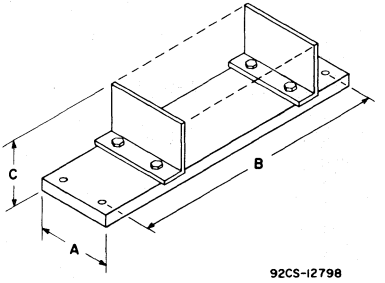
[a] Refer to *RECTIFIER CIRCUITS AND CHARACTERISTICS CHART*, in General Section for circuit applications of bridge rectifiers.

DIMENSIONS IN INCHES
(See *Dimensional Outline*)

CR501 SERIES

RCA Type	A	B	C
CR501	2-1/4	7	2
CR502	2-1/4	7	2
CR503	3	9-1/2	3-3/8
CR504	3	9-1/2	3-3/8
CR505	5-1/2	10-1/4	5-3/8
CR506	5-1/2	10-1/4	5-3/8

DIMENSIONAL OUTLINE



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