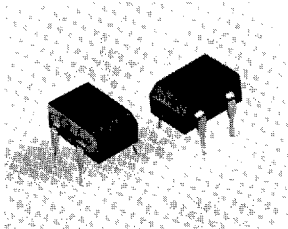




Silicon Bridge Rectifiers

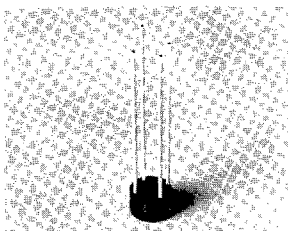


1 Amp Silicon Bridge Rectifiers

DF005-DF10 Series. Single-phase, full-wave bridge rectifiers in 4-pin Dual-in-Line packages. 50V to 1000V (V_{RRM}). 1A (I_O), 30A peak one-half cycle surge. Epoxy package has UL94V-0 flame retardant rating. Lead solderable per MIL-STD 202, method 208. Small size, high reliability, and low cost.

1 Amp Fast Recovery Type

RDF005-RDF10 Series. 200-500 nsec.



1.5 Amp Silicon Bridge Rectifiers

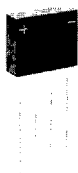
W005M-W10M Series. Low-cost, small-size, single-phase, full wave bridge rectifiers. 50V to 1000V (V_{RRM}). 1.5A (I_O), 40A peak one-half cycle surge. Low forward voltage drop. Rugged epoxy case.

1.5 Amp Fast Recovery Type

RW005M-RW10M Series. 200-500 nsec.

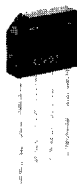
1.5 Amp Controlled Avalanche Type

AW02M-AW08M Series.



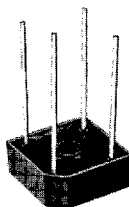
1.5 Amp and 2 Amp Silicon Bridge Rectifiers

KBP005-KBP10 Series; 1.5A • 2KBP005-2KBP10 Series; 2A. Reliable, low-cost, single-phase, full-wave bridge rectifiers. 50V to 1000V (V_{RRM}). 1.5A and 2A (I_O). KBP Series has 40A peak one-half cycle surge. 2KBP Series has 50A peak one-half cycle surge. Epoxy packages have UL94V-0 flame-retardant rating. Lead solderable per MIL-STD 202, method 208.



4 Amp and 8 Amp Silicon Bridge Rectifiers

KBL005-KBL10 Series; 4A, KBU8005-KBU810 Series; 8A. Low cost, reliable, single-phase, full-wave bridge rectifiers in rugged epoxy packages. 50V to 1000V (V_{RRM}). 4A (I_O). KBL Series has 200A peak one-half cycle surge. KBU Series 8A (I_O) has 300A I_{FSM} .



3 Amp, 6 Amp, 8 Amp and 10 Amp Silicon Bridge Rectifiers

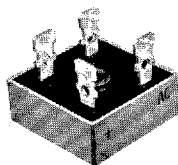
KBPC1005-KBPC110 Series; 3A • KBPC6005-KBPC610 Series; 6A • KBPC8005-KBPC810 Series; 8A • KBPC10005P-KBPC1010P Series; 10A. Rugged, small-size epoxy packages. Single-phase, full-wave bridge rectifiers. 50V to 1000V (V_{RRM}). 3A, 6A, 8A and 10A (I_O).

6 Amp and 8 Amp Fast Recovery Type

RKBPC6005-RKBPC610 Series, 6A • RKBPC8005-RKBPC810; 8A. 200-500 nsec.

6 Amp Controlled Avalanche Type

AKBPC602-AKBPC608 Series.



15 Amp, 25 Amp, 35 Amp Silicon Bridge Rectifiers

KBPC15005-KBPC1510 Series; 15A • KBPC25005-KBPC2510 Series; 25A • KBPC35005-KBPC3510 Series; 35A. Very high efficiency, single-phase full-wave bridge rectifiers. Metal case with electrically isolated ceramic heat sink. 50V to 1000V (V_{RRM}). 15A and 25A have 300A peak one-half cycle surge. 35A Series has 400A peak one-half cycle surge.

15 Amp, 25 Amp and 35 Amp Fast Recovery Type

RKBPC15005-RKBPC1510; 15A • RKBPC25005-RKBPC2510; 25A • RKBPC35005-RKBPC3510; 35A. 200-500 nsec.

35 Amp Controlled Avalanche Type

AKBPC3502-AKBPC3508.

Silicon Bridge Rectifiers

UL Listing #E106441

MAXIMUM RATINGS (AT $T_A=25^\circ\text{C}$ Unless Otherwise Specified)

PARAMETER	SYMBOL	DF005	DF01	DF02	DF04	DF06	DF08	DF10	W005M	W01M	W02M	W04M	W06M	W08M	W10M	KBPC05	KBPC1	KBPC2	KBPC4
DC Blocking Voltage Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V_{RRM} V_{RRM} V_{RWM}	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100	200	400
RMS Reverse Voltage	V_R (RMS)	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70	140	280
Peak Surge Current (Nonrep.) 8.3 ms single 1/2 sine wave superimposed on rated load	I_{FSM}	30	30	30	30	30	30	30	40	40	40	40	40	40	40	40	40	40	40
Average Rectified Output Current *See Note	I_O	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Junction Operating Temperature Range	T_J	-55 to +125								-55 to +125								-55 to +125	
Storage Temperature Range (T_A)	T_{stg}	-55 to +150								-55 to +150								-55 to +150	

(Single Phase, Resistive or Inductive Load, 60 Hz
Derate current 20% for capacitive load)

*At $T_A = 40^\circ\text{C}$
†t for Fusing (t<8.35ms) = 3.7A²S

*At $T_A = 25^\circ\text{C}$

*At $T_A = 25^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

PARAMETER	SYMBOL	DF005	DF01	DF02	DF04	DF06	DF08	DF10	W005M	W01M	W02M	W04M	W06M	W08M	W10M	KBPC05	KBPC1	KBPC2	KBPC4
Maximum Forward Voltage Drop (per diode)	V_{FM}	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Maximum Reverse Current (per diode) at rated V_{RM}	I_{RM}	5.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

*At $I_F = 1.0\text{A}$

*At $I_F = 1.0\text{A}$

*At $I_F = 1.0\text{A}$

MAXIMUM RATINGS (AT $T_A=25^\circ\text{C}$ Unless Otherwise Specified)

PARAMETER	SYMBOL	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	KBPC1000SP	KBPC1001P	KBPC1002P	KBPC1004P
DC Blocking Voltage Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V_{RRM} V_{RRM} V_{RWM}	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100	200	400
RMS Reverse Voltage	V_R (RMS)	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70	140	280
Peak Surge Current (Nonrep.) 8.3 ms single 1/2 sine wave superimposed on rated load	I_{FSM}	125	125	125	125	125	125	125	125	125	125	125	125	125	125	150	150	150	150
Average Rectified Output Current *See Note	I_O	6	6	6	6	6	6	6	8	8	8	8	8	8	8	*10 @ $T_C = 50^\circ\text{C}$ **8			
Junction Operating Temperature Range	T_J	-55 to +125								-55 to +125								-55 to +125	
Storage Temperature Range (T_A)	T_{stg}	-55 to +150								-55 to +150								-55 to +150	

(Single Phase, Resistive or Inductive Load, 60 Hz
Derate current 20% for capacitive load)

Mounted on metal chassis
*At $T_C = 50^\circ\text{C}$

Mounted on metal chassis
*At $T_C = 50^\circ\text{C}$

* Unit Mounted on Metal
** Unit Mounted on PCB

ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

PARAMETER	SYMBOL	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	KBPC1000SP	KBPC1001P	KBPC1002P	KBPC1004P
Maximum Forward Voltage Drop (per diode)	V_{FM}	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Maximum Reverse Current (per diode) at rated V_{RM}	I_{RM}	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

* At $I_F = 3.0\text{A}$

* At $I_F = 4.0\text{A}$

* At $I_F = 5.0\text{A}$

2

STANDARD RECOVERY

KBPC6	KBPC8	KBPC10	2KBPC05	2KBPC01	2KBPC02	2KBPC04	2KBPC06	2KBPC08	2KBPC10	KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10	KBUB005	KBUB01					
600	800	1000	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100					
420	560	700	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70					
40	40	40	50	50	50	50	50	50	50	50	50	50	50	50	50	50	200	200	200	200	200	200	200	300	300					
1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	*3 @ T _C = 50°C **2 @ T _A = 50°C							4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0	8.0				
										-55 to +125							-55 to +125													
										-55 to +150							-55 to +150													
										*At T _A = 25°C							*Unit Mounted on Metal Chassis ** Unit Mounted on PC Board							*At T _A = 25°C						

KBPC6	KBPC8	KBPC10	2KBPC05	2KBPC01	2KBPC02	2KBPC04	2KBPC06	2KBPC08	2KBPC10	KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10	KBUB005	KBUB01					
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0					
10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0					
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0					
										*At I _F = 1.0A							*At I _F = 1.5A							*At I _F = 3.0A						

KBPC1006P	KBPC1008P	KBPC1010P	KBPC15005	KBPC1501	KBPC1502	KBPC1504	KBPC1506	KBPC1508	KBPC1510	KBPC25005	KBPC2501	KBPC2502	KBPC2504	KBPC2506	KBPC2508	KBPC2510	KBPC35005	KBPC3501	KBPC3502	KBPC3504	KBPC3506	KBPC3508	KBPC3510	UNITS						
600	800	1000	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	V						
420	560	700	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70	140	280	420	560	700	V						
150	150	150	300	300	300	300	300	300	300	300	300	300	300	300	300	300	400	400	400	400	400	400	400	A						
@ T _A = 50°C			15	15	15	15	15	15	15	25	25	25	25	25	25	25	35	35	35	35	35	35	35	A						
										-55 to +125							-55 to +125							°C						
										-55 to +150							-55 to +150							°C						
Chassis										*At T _C = 55°C							*At T _C = 55°C							At T _C = 55°C						
Board																								*Also available with wire leads by adding suffix "W"						

KBPC1006P	KBPC1008P	KBPC1010P	KBPC15005	KBPC1501	KBPC1502	KBPC1504	KBPC1506	KBPC1508	KBPC1510	KBPC25005	KBPC2501	KBPC2502	KBPC2504	KBPC2506	KBPC2508	KBPC2510	KBPC35005	KBPC3501	KBPC3502	KBPC3504	KBPC3506	KBPC3508	KBPC3510	UNITS						
1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	V						
10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	μA						
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	mA						
										*At I _F = 7.5A							*At I _F = 12.5A							*At I _F = 17.5A						

Collmer Semiconductor, Inc.

14368 PROTON RD. • DALLAS, TEXAS 75244 • 214/233-1589
FAX 214/233-0481



2238792 0002070 245 COL

3

CONTROLLED AVALANCHE

MAXIMUM RATINGS (At $T_A=25^\circ\text{C}$ Unless Otherwise Specified)

	KBU802	KBU804	KBU806	KBU808	KBU810	UNITS
	200	400	600	800	1000	V
	140	280	420	560	700	V
	300	300	300	300	300	A
	8.0	8.0	8.0	8.0	8.0	A
	-55 to +125					$^\circ\text{C}$
	-55 to +150					$^\circ\text{C}$

* $T_C = 100^\circ\text{C}$
* $T_A = 65^\circ\text{C}$

PARAMETER	SYMBOL	AW02M	AW04M	AW06M	AW08M	AKBPC602	AKBPC604	AKBPC606	AKBPC608	UNITS
DC Blocking Voltage Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V_{RM} V_{RRM} V_{RWM}	200	400	600	800	200	400	600	800	V
RMS Reverse Voltage	V_R (RMS)	140	280	420	560	140	280	420	560	V
Peak Surge Current (Nonrep.) 8.3 ms single 1/2 sine wave superimposed on rated load	I_{FSM}	50	50	50	50	125	125	125	125	A
Average Rectified Output Current *See Note	I_O	1.5	1.5	1.5	1.5	6 @ $T_C = 50^\circ\text{C}$			A	
Junction Operating Temperature Range	T_J	-55 to +125			-55 to +125			$^\circ\text{C}$		
Storage Temperature Range (T_{stg})	T_{stg}	-55 to +150			-55 to +150			$^\circ\text{C}$		

(Single Phase, Resistive or Inductive Load, 60 Hz
Derate current 20% for capacitive load)

* $T_A = 25^\circ\text{C}$
9.5mm Lead Length

*Mounted on metal chassis

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

	KBU802	KBU804	KBU806	KBU808	KBU810	UNITS
	1.0	1.0	1.0	1.0	1.0	V
	10.0	10.0	10.0	10.0	10.0	μA
	1.0	1.0	1.0	1.0	1.0	mA

*At $I_F = 4.0\text{A}$

PARAMETER	SYMBOL	AW02M	AW04M	AW06M	AW08M	AKBPC602	AKBPC604	AKBPC606	AKBPC608	UNITS
Minimum Avalanche Voltage @ $100\mu\text{A}$	V_{BR}	250	450	650	850	250	450	650	850	V
Maximum Avalanche Voltage @ $100\mu\text{A}$	V_{BR}	700	900	1100	1300	700	900	1100	1300	V
Maximum Forward Voltage Drop (per diode)	V_{FM}	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	V
Maximum Reverse Current (per diode) at rated V_{RM}	I_{RM} I_{RM}	$T_A = 25^\circ\text{C}$	10.0	10.0	10.0	10.0	10.0	10.0	10.0	μA
		$T_A = 100^\circ\text{C}$	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

*At $I_F = 1.0\text{A}$

*At $I_F = 3.0\text{A}$

MAXIMUM RATINGS (At $T_A=25^\circ\text{C}$ Unless Otherwise Specified)

PARAMETER	SYMBOL	AKBPC3502	AKBPC3504	AKBPC3506	AKBPC3508	UNITS
DC Blocking Voltage Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V_{RM} V_{RRM} V_{RWM}	200	400	600	800	V
RMS Reverse Voltage	V_R (RMS)	140	280	420	560	V
Peak Surge Current (Nonrep.) 8.3 ms single 1/2 sine wave superimposed on rated load	I_{FSM}	400	400	400	400	A
Average Rectified Output Current *See Note	I_O	35	35	35	35	A
Junction Operating Temperature Range	T_J	-55 to +125			$^\circ\text{C}$	
Storage Temperature Range (T_{stg})	T_{stg}	-55 to +150			$^\circ\text{C}$	

(Single Phase, Resistive or Inductive Load, 60 Hz
Derate current 20% for capacitive load)

* $T_C = 55^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

PARAMETER	SYMBOL	AKBPC3502	AKBPC3504	AKBPC3506	AKBPC3508	UNITS
Minimum Avalanche Voltage @ $100\mu\text{A}$	V_{BR}	250	450	650	850	V
Maximum Avalanche Voltage @ $100\mu\text{A}$	V_{BR}	700	900	1100	1300	V
Maximum Forward Voltage Drop (per diode)	V_{FM}	1.2	1.2	1.2	1.2	V
Maximum Reverse Current (per diode) at rated V_{RM}	I_{RM} I_{RM}	$T_A = 25^\circ\text{C}$	10.0	10.0	10.0	μA
		$T_A = 100^\circ\text{C}$	1.0	1.0	1.0	1.0

*At $I_F = 17.5\text{A}$

FAST RECOVERY

MAXIMUM RATINGS (AT T_A=25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	RDF005	RDF01	RDF02	RDF04	RDF06	RDF08	RDF10	RW005M	RW01M	RW02M	RW04M	RW06M	RW08M	RW10M	RKBPC6005	RKBPC601	RKBPC602	
DC Blocking Voltage Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V _{RM} V _{RRM} V _{RWM}	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100	20	
RMS Reverse Voltage	V _{R (RMS)}	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70	14	
Peak Surge Current (Nonrep.) 8.3 ms single 1/2 sine wave superimposed on rated load	I _{FSM}	30	30	30	30	30	30	30	40	40	40	40	40	40	40	125	125	12	
Average Rectified Output Current *See Note	I _O	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
Junction Operating Temperature Range	T _J	-55 to +125							-55 to +125										
Storage Temperature Range (T _A)	T _{stg}	-55 to +150							-55 to +150										

(Single Phase, Resistive or Inductive Load, 60 Hz
Derate current 20% for capacitive load)

*T_A = 40°C

*T_A = 50°C

*Mou

ELECTRICAL CHARACTERISTICS (AT T_A = 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	RDF005	RDF01	RDF02	RDF04	RDF06	RDF08	RDF10	RW005M	RW01M	RW02M	RW04M	RW06M	RW08M	RW10M	RKBPC6005	RKBPC601	RKBPC602
Maximum Forward Voltage Drop (per diode)	V _{FM}	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Maximum Reverse Current (per diode) at rated V _{RM}	I _{RM}	5.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Maximum Recovery Time ⁽¹⁾	t _{rr}	200	200	200	200	300	500	500	200	200	200	200	300	500	500	200	200	20

*At I_F = 1.0A

*At I_F = 1.0A

(1) Measured with I_F = 0.5A, I_R = -1A, I_{RR} = -0.25A

(1) Measured with I_F = 0.5A, I_R = -1A, I_{RR} = -0.25A

(1) Measured with

MAXIMUM RATINGS (At T_A=25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	RKBPC6005	RKBPC601	RKBPC602	RKBPC604	RKBPC606	RKBPC608	RKBPC610	RKBPC15005	RKBPC1501	RKBPC1502	RKBPC1504	RKBPC1506	RKBPC1508	RKBPC1510	RKBPC25005	RKBPC2501	RKBPC2502	RKBPC2504	RKBPC2506	RKBPC2508	RKBPC2510	RKBPC35005
DC Blocking Voltage Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V _{RM} V _{RRM} V _{RWM}	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50	100	200	400	600	800	1000	50
RMS Reverse Voltage	V _{R (RMS)}	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35	70	140	280	420	560	700	35
Peak Surge Current (Nonrep.) 8.3 ms single 1/2 sine wave superimposed on rated load	I _{FSM}	125	125	125	125	125	125	125	300	300	300	300	300	300	300	300	300	300	300	300	300	300	400
Average Rectified Output Current *See Note	I _O	8 @ T _C = 50°C							15	15	15	15	15	15	15	25	25	25	25	25	25	25	35
Junction Operating Temperature Range	T _J	-55 to +125							-55 to +125							-55 to +125							
Storage Temperature Range (T _A)	T _{stg}	-55 to +150							-55 to +150							-55 to +150							

(Single Phase, Resistive or Inductive Load, 60 Hz
Derate current 20% for capacitive load)

*Mounted on metal chassis

*T_C = 55°C

*T_C = 55°C

ELECTRICAL CHARACTERISTICS (At T_A = 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	RKBPC6005	RKBPC601	RKBPC602	RKBPC604	RKBPC606	RKBPC608	RKBPC610	RKBPC15005	RKBPC1501	RKBPC1502	RKBPC1504	RKBPC1506	RKBPC1508	RKBPC1510	RKBPC25005	RKBPC2501	RKBPC2502	RKBPC2504	RKBPC2506	RKBPC2508	RKBPC2510	RKBPC35005
Maximum Forward Voltage Drop (per diode)	V _{FM}	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Maximum Reverse Current (per diode) at rated V _{RM}	I _{RM}	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Maximum Recovery Time ⁽¹⁾	t _{rr}	200	200	200	200	300	500	500	200	200	200	200	300	500	500	200	200	200	200	300	500	500	200

*At I_F = 4.0A

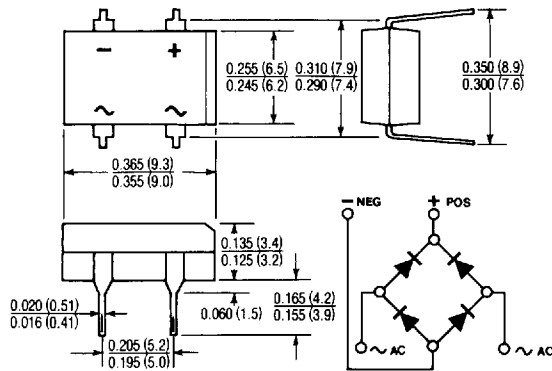
*At I_F = 7.5A

*At I_F = 12.5A

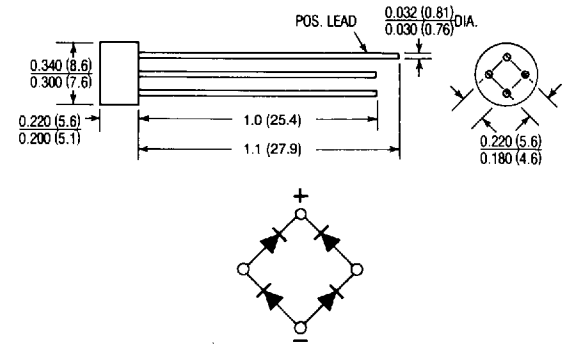
(1) Measured with I_F = 0.5A, I_R = -1A, I_{RR} = -0.25A (1) Measured with I_F = .5A, I_R = -1.0A, I_{RR} = -0.25A (1) Measured with I_F = .5A, I_R = -1.0A, I_{RR} = -0.25A (1) Meas

Dimensional Outlines
Dimensions in INCHES: (MILLIMETERS)

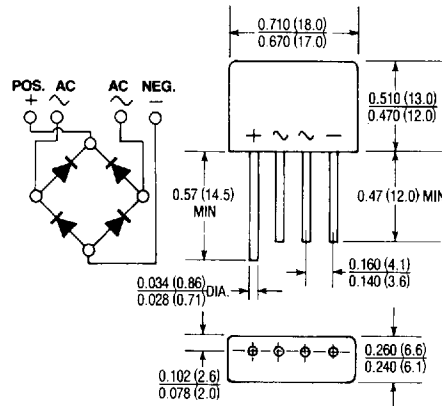
DF Series
RDF Series



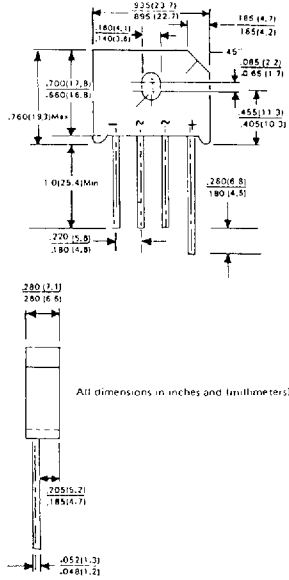
W-M Series
RW-M Series
AW-M Series



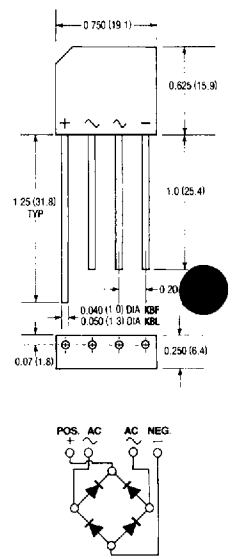
KBP Series
2KPB Series



KBU Series



KBL Series

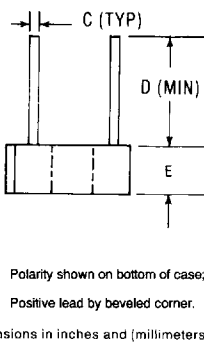
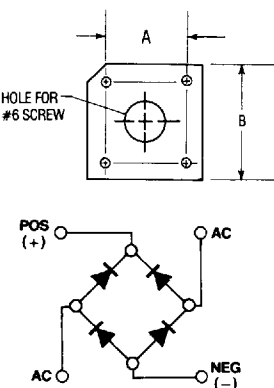


A
KBPC6 Series
KBPC1 Series
AKBPC6 Series
RKBPC6 Series

- A: .445 (11.3) - .405 (10.3)
- B: .620 (15.75) - .580 (14.73)
- C: 0.040 (1.0)
- D: .75 (19) Min.
- E: .270 (6.86) - .230 (5.84)

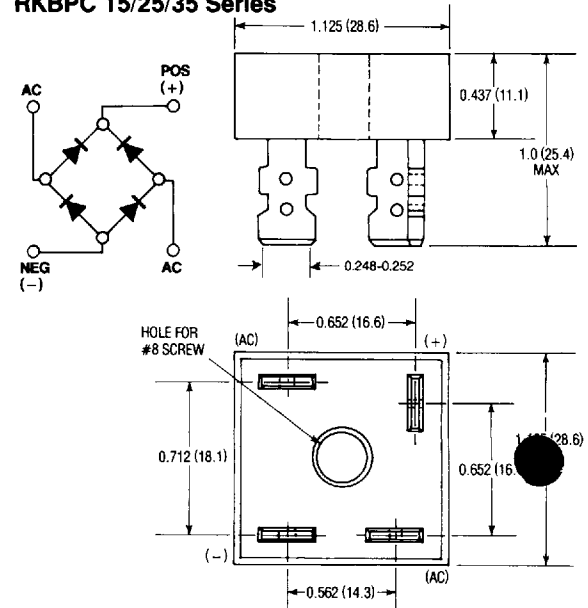
B
KBPC8 Series
KBPC10P Series
RKBPC8 Series

- A: .500 (12.7)
- B: .770 (19.56) - .730 (18.54)
- C: 0.050 (1.27)
- D: .875 (22.2) Min.
- E: .300 (7.6) - .250 (6.35)



Polarity shown on bottom of case;
Positive lead by beveled corner.
Dimensions in inches and (millimeters)

KBPC15/25/35 Series
AKBPC 35 Series
RKBPC 15/25/35 Series



*Diameter of wire leads on KBPC3500(W) series = 0.04 (1.0)

	RKBPC604	RKBPC606	RKBPC608	RKBPC610	UNITS
V	400	600	800	1000	V
V	280	420	560	700	V
A	125	125	125	125	A
*At $T_C = 50^\circ\text{C}$					A
-55 to +125					$^\circ\text{C}$
-55 to +150					$^\circ\text{C}$

Mounted on metal chassis

	RKBPC604	RKBPC606	RKBPC608	RKBPC610	UNITS
V	1.3	1.3	1.3	1.3	V
μA	10.0	10.0	10.0	10.0	μA
mA	1.0	1.0	1.0	1.0	mA
ns	200	300	500	500	ns

*At $I_F = 3.0\text{A}$
 $I_{RM} = 0.5\text{A}$, $I_{RM} = -1\text{A}$, $I_{RR} = -0.25\text{A}$

	RKBPC3501	RKBPC3502	RKBPC3504	RKBPC3506	RKBPC3508	RKBPC3510	UNITS
V	100	200	400	600	800	1000	V
V	70	140	280	420	560	700	V
A	400	400	400	400	400	400	A
A	35	35	35	35	35	35	A
-55 to +125							$^\circ\text{C}$
-55 to +150							$^\circ\text{C}$

* $T_C = 55^\circ\text{C}$

	RKBPC3801	RKBPC3802	RKBPC3804	RKBPC3806	RKBPC3808	RKBPC3810	UNITS
V	1.3	1.3	1.3	1.3	1.3	1.3	V
μA	10.0	10.0	10.0	10.0	10.0	10.0	μA
mA	1.0	1.0	1.0	1.0	1.0	1.0	mA
ns	200	200	200	300	500	500	ns

*At $I_F = 17.5\text{A}$
Rated with $I_F = 5\text{A}$, $I_{RM} = -1.0\text{A}$, $I_{RR} = -0.25\text{A}$