Tron® Rectifier Fuses



TRON® Rectifier Fuses are especially designed for the protection of semi-conductor rectifiers, SCR'S, Thyristors, solid state devices or any instance in which a very fast acting fuse is needed. They provide extremely fast opening on overload and fault currents, with a high degree of restriction of the let-thru current. If each diode is protected by a TRON rectifier fuse, the fuse will open very quickly when the short circuit current significantly exceeds the rating of the diode. Thus when a short-circuit occurs in a diode the fuse opens and takes that diode out of the circuit; other good diodes in the rectifier which might otherwise be damaged are not affected. For application data, see Bulletin TRFS and E60.

Ampere and Voltage Ratings—Rectifier Fuses

60 Volts	130 Volts			250 Volts			500 Volts	600 Volts			700 Volts
GBB	KAA	KAW	KAH	KAB	KAX	KAG	KBH	KAC	KBC	KAJ	KBP
*GBB-⅛	—	—	—	—	—	—	—	—	—	—	—
*GBB-¼	—	—	—	—	—	—	—	—	—	—	—
*GBB-½	*KAA-½	—	—	KAB-½	KAX-½	—	—	—	—	—	—
*GBB-¾	—	—	—	—	—	—	—	—	—	—	—
*GBB-1	*KAA-1	KAW-1	—	KAB-1	KAX-1	—	—	KAC-1	KBC-1	KAJ-1	—
*GBB-1¼	—	—	—	—	—	—	—	—	—	—	—
*GBB-1½	*KAA-1½	—	—	—	—	—	—	—	—	—	—
*GBB-2	*KAA-2	KAW-2	—	KAB-2	KAX-2	—	—	KAC-2	KBC-2	—	—
—	*KAA-2½	—	—	—	—	—	—	—	—	—	—
*GBB-3	*KAA-3	KAW-3	—	KAB-3	KAX-3	—	—	KAC-3	KBC-3	—	—
*GBB-4	*KAA-4	KAW-4	—	KAB-4	KAX-4	—	—	KAC-4	KBC-4	—	—
*GBB-5	*KAA-5	KAW-5	—	KAB-5	KAX-5	—	—	KAC-5	KBC-5	—	—
*GBB-6	*KAA-6	KAW-6	—	KAB-6	KAX-6	—	—	KAC-6	KBC-6	—	—
*GBB-7	*KAA-7	KAW-7	—	KAB-7	KAX-7	—	—	KAC-7	KBC-7	—	—
*GBB-8	*KAA-8	KAW-8	—	KAB-8	KAX-8	—	—	KAC-8	KBC-8	—	—
*GBB-9	*KAA-9	KAW-9	—	KAB-9	KAX-9	—	—	KAC-9	—	—	—
*GBB-10	*KAA-10	KAW-10	—	KAB-10	KAX-10	—	—	KAC-10	KBC-10	KAJ-10	—
*GBB-12	*KAA-12	KAW-12	—	KAB-12	KAX-12	—	—	KAC-12	KBC-12	—	—
*GBB-15	*KAA-15	KAW-15	—	KAB-15	KAX-15	—	—	KAC-15	KBC-15	—	—
*GBB-17½	—	—	—	KAB-17½	KAX-17½	—	—	KAC-17½	KBC-17½	—	—
*GBB-20	*KAA-20	KAW-20	—	KAB-20	KAX-20	—	—	KAC-20	KBC-20	—	—
*GBB-25	*KAA-25	KAW-25	—	KAB-25	KAX-25	—	—	*KAC-25	KBC-25	KAJ-25	KBP-25
*GBB-30	*KAA-30	KAW-30	—	KAB-30	KAX-30	—	—	*KAC-30	KBC-30	KAJ-30	KBP-30
—	—	—	*KAH-35	*KAB-35	*KAX-35	—	*KBH-35	*KAC-35	*KBC-35	KAJ-35	KBP-35
—	—	—	*KAH-40	*KAB-40	*KAX-40	—	*KBH-40	*KAC-40	*KBC-40	KAJ-40	KBP-40
—	—	—	*KAH-45	*KAB-45	*KAX-45	—	*KBH-45	*KAC-45	*KBC-45	KAJ-45	—
—	—	—	*KAH-50	*KAB-50	*KAX-50	—	*KBH-50	*KAC-50	*KBC-50	KAJ-50	KBP-50
—	—	—	*KAH-60	*KAB-60	*KAX-60	—	*KBH-60	*KAC-60	*KBC-60	KAJ-60	KBP-60
—	—	—	—	—	—	—	*KBH-65	—	—	—	—
—	*KAA-70	—	—	*KAB-70	KAX-70	—	*KBH-70	*KAC-70	*KBC-70	—	KBP-70
—	*KAA-80	—	—	*KAB-80	KAX-80	—	*KBH-80	*KAC-80	*KBC-80	—	KBP-80
—	*KAA-90	—	—	*KAB-90	KAX-90	—	*KBH-90	*KAC-90	*KBC-90	—	KBP-90
—	*KAA-100	—	—	*KAB-100	KAX-100	—	*KBH-100	*KAC-100	*KBC-100	—	KBP-100
—	—	—	—	—	—	—	—	*KAC-110	*KBC-110	—	—
—	*KAA-125	—	—	*KAB-125	KAX-125	—	*KBH-125	*KAC-125	*KBC-125	—	KBP-125
—	*KAA-130	—	—	—	—	—	—	—	—	—	—
—	*KAA-150	—	—	*KAB-150	KAX-150	—	*KBH-150	*KAC-150	*KBC-150	—	KBP-150
—	*KAA-175	—	—	*KAB-175	KAX-175	—	*KBH-175	*KAC-175	*KBC-175	—	KBP-175
—	*KAA-200	—	—	*KAB-200	KAX-200	—	*KBH-200	*KAC-200	*KBC-200	—	KBP-200
—	*KAA-225	—	—	*KAB-225	*KAX-225	—	*KBH-225	*KAC-225	*KBC-225	—	KBP-225
—	*KAA-250	—	—	*KAB-250	*KAX-250	—	*KBH-250	*KAC-250	*KBC-250	—	KBP-250
—	*KAA-300	—	—	*KAB-300	*KAX-300	—	*KBH-300	*KAC-300	*KBC-300	—	KBP-300
—	*KAA-350	—	—	*KAB-350	*KAX-350	—	*KBH-350	*KAC-350	*KBC-350	—	—
—	*KAA-400	—	—	*KAB-400	*KAX-400	—	*KBH-400	*KAC-400	*KBC-400	—	KBP-400
—	*KAA-450	—	—	*KAB-450	*KAX-450	—	*KBH-450	*KAC-450	*KBC-450	—	KBP-450
—	*KAA-500	—	—	*KAB-500	*KAX-500	—	*KBH-500	*KAC-500	*KBC-500	—	KBP-500
—	—	—	—	—	—	—	*KBH-550	—	—	—	—
—	*KAA-600	—	—	*KAB-600	*KAX-600	—	*KBH-600	*KAC-600	*KBC-600	—	KBP-600
—	*KAA-650	—	—	—	—	—	—	—	—	—	—
—	*KAA-700	—	—	*KAB-700	*KAX-700	—	KBH-700	KAC-700	*KBC-700	—	—
—	*KAA-800	—	—	*KAB-800	*KAX-800	KAG-800	KBH-800	KAC-800	*KBC-800	—	—
—	*KAA-1000	—	—	—	—	KAG-1000	KBH-1000	KAC-1000	KBC-1000	—	—
—	KAA-1200	—	—	—	—	KAG-1200	KBH-1200	—	—	—	—
—	KAA-1500	—	—	—	—	KAG-1500	—	—	—	—	—
—	KAA-2000	—	—	—	—	KAG-2000	—	—	—	—	—
—	KAA-2500	—	—	—	—	KAG-2500	—	—	—	—	—
—	KAA-3000	—	—	—	—	KAG-3000	—	—	—	—	—

*U.L. Recognized.

Tron® Rectifier Fuses

Rectifier Fuses (60 to 700 Volts) 1/8 to 3000 Amperes

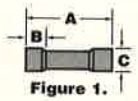


Figure 1.

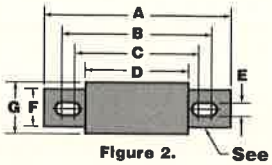


Figure 2. See Note

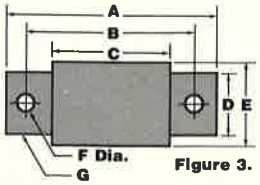


Figure 3.

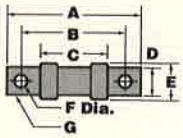


Figure 4.

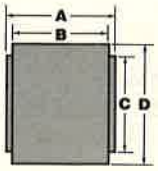
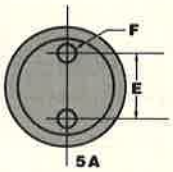
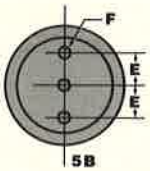


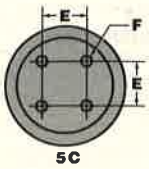
Figure 5.



5A



5B



5C

Rectifier Fuses—Dimensional, Carton Quality and Weight Data

Cat. Number	Volts	Ampere Rating	Fig. No.	Dimensions in Inches A	B	C	D	E	F	G	Dimensions in Metric (mm) A	B	C	D	E	F	G	Ctn. Qty.	Wt. Per Ctn. Lbs.	Kg
GBB	60V	1/8-30	1	1 1/4	1/4	1/4	—	—	—	—	31.8	6.4	6.4	—	—	—	—	5	0.05	0.023
KAA	130V	1/2-30	1	1 1/2	3/8	13/32	—	—	—	—	38.1	9.5	10.3	—	—	—	—	10	0.18	0.079
		70-400	2**	2 21/32	2 3/16	1 29/32	1 5/32	5/16	3/4	1	67.5	55.6	48.4	29.4	7.9	19.1	25.4	10	2.15	0.975
		450-1000	3	3 1/2	2 7/16	1 1/4	1	1 1/2	13/32	1/4	88.9	61.9	31.8	25.4	38.1	10.3	6.4	10	6.00	2.722
		1200-2000	5-A	1 7/8	1 5/8	1 3/4	2	1	**	—	47.6	41.3	44.5	50.8	25.4	**	—	1	1.25	0.567
		2500-3000	5-A	1 7/8	1 3/4	2 1/2	3	1 1/2	■■	—	47.6	44.5	63.5	76.2	38.1	■■	—	1	2.80	1.270
KAB	250V	1/2-30	1	2	1/2	9/16	—	—	—	—	50.8	12.7	14.3	—	—	—	—	10	0.35	0.159
		35-60	4	3 3/16	2 7/16	1 9/16	3/4	13/16	11/32	1/8	81.0	61.9	39.7	19.1	20.6	8.7	3.2	10	1.20	0.544
		70-200	3	3 1/8	2 3/8	1 9/16	7/8	1 7/32	11/32	3/16	79.4	60.3	39.7	22.2	31.0	8.7	4.8	10	4.13	1.871
		225-800	3	3 27/32	2 25/32	1 19/32	1	1 1/2	13/32	1/4	97.6	70.6	40.5	25.4	38.1	10.3	6.4	10	6.08	2.756
KAC	600V	1-30	3	2 7/8	2 1/2	1 7/8	13/32	9/16	1/4	1/16	73.0	63.5	47.6	10.3	14.3	6.4	1.6	10	0.48	0.215
		35-60	3	4 3/8	3 5/8	2 3/4	5/8	13/16	11/32	3/32	111.1	92.1	69.9	15.9	20.6	8.7	2.4	10	1.38	0.624
		70-100	2**	5	4 1/6	3 21/32	2 29/32	13/32	3/4	1	127.0	103.2	92.9	73.8	10.3	19.1	25.4	1	0.38	0.170
		110-200	2**	5 1/2	4 3/8	3 3/32	2 29/32	13/32	1 1/8	1 1/2	139.7	111.1	92.9	73.8	10.3	28.6	38.1	1	0.85	0.383
		225-400	3	6 1/4	4 3/4	3	1 5/8	2	9/16	1/4	158.8	120.7	76.2	41.3	50.8	14.3	6.4	1	1.88	0.851
		450-800	3	6 1/4	4 3/4	3 1/16	2	2 1/2	9/16	1/4	158.8	120.7	77.8	50.8	63.5	14.3	6.4	1	3.32	1.504
		1000	3	7 1/4	4 3/4	3 1/16	2 3/4	3 1/2	9/16	3/8	184.2	120.7	77.8	69.9	88.9	14.3	9.5	1	7.00	3.175
KAG	250V	1000-1200	5-B	2 19/32	2 11/32	2 1/2	3	3/4	**	—	65.9	59.5	63.5	76.2	19.1	**	—	1	3.35	1.519
		1500-2500	5-C	2 19/32	2 11/32	3	3 1/2	1 1/2	**	—	65.9	59.5	76.2	88.9	38.1	**	—	1	4.85	2.199
KAH	130V	35-60	1	2	5/8	13/16	—	—	—	—	50.8	15.9	20.6	—	—	—	—	10	0.88	0.397
KAJ	600V	1-60	1	3	5/8	13/16	—	—	—	—	76.2	15.9	20.6	—	—	—	—	10	1.20	0.544
KAW	130V	1-30	1	1 1/2	3/8	13/32	—	—	—	—	38.1	9.5	10.3	—	—	—	—	10	0.18	0.079
KAX	250V	1/2-30	1	2	1/2	9/16	—	—	—	—	50.8	12.7	14.3	—	—	—	—	10	0.35	0.159
		35-60	4	3 3/16	2 7/16	1 9/16	3/4	13/16	11/32	1/8	81.0	61.9	39.7	19.1	20.6	8.7	3.2	10	1.20	0.544
		70-200	3	3 1/8	2 3/8	1 9/16	7/8	1 7/32	1 1/32	3/16	79.4	60.3	39.7	22.2	31.0	8.7	4.8	10	4.13	1.871
		225-800	3	3 27/32	2 25/32	1 19/32	1	1 1/2	1 3/32	1/4	97.6	70.6	40.5	25.4	38.1	10.3	6.4	10	6.08	2.756
KBC	600V	1-30	1	5	5/8	1 3/16	—	—	—	—	127.0	15.9	20.6	—	—	—	—	10	1.30	—
		35-60	3	4 3/8	3 5/8	2 3/4	5/8	1 3/16	1 1/32	3/32	111.1	92.1	69.9	15.9	20.6	8.8	2.4	10	1.38	0.624
		70-100	3	4 13/32	3 21/32	2 29/32	3/4	1	5/16	1/8	111.9	92.9	73.8	19.1	25.4	7.9	3.2	1	0.43	0.195
		110-200	3	4 13/32	3 21/32	2 29/32	7/8	17/32	5/16	3/16	111.9	92.9	73.8	22.2	31.0	7.9	4.8	1	0.95	0.431
		225-400	3	5 1/8	4 1/16	2 29/32	1	1 1/2	1 3/32	1/4	130.2	103.2	73.8	25.4	38.1	10.3	6.4	1	1.06	0.481
		450-600	3	5 1/8	4 1/16	2 7/8	1 1/2	2	1 3/32	1/4	130.2	103.2	73.0	38.1	50.8	10.3	6.4	1	1.28	0.581
		800	5-B	4	3 3/4	2 1/2	3	3/4	**	—	101.6	95.3	63.5	76.2	19.1	**	—	1	4.50	2.041
		1000	5-C	4	3 3/4	3	3 1/2	1 1/2	**	—	101.6	95.3	76.2	88.9	38.1	**	—	1	6.25	2.835
KBH	500V	35-60	4	3 3/16	2 7/16	1 9/16	3/4	1 3/16	1 1/32	7/8	81.0	61.9	39.7	19.1	20.6	8.7	3.2	10	1.20	0.544
		65-100	3	3 5/8	2 7/8	2 1/8	3/4	1	5/16	1/8	92.1	73.0	54.0	19.1	25.4	7.9	3.2	5	1.25	0.567
		125-200	3	3 5/8	2 7/8	2 1/8	7/8	1 7/32	5/16	3/16	92.1	73.0	54.0	22.2	31.0	7.9	4.8	5	1.95	0.885
		225-400	3	4 11/32	3 9/32	2 3/32	1	1 1/2	1 3/32	1/4	110.3	83.3	53.2	25.4	38.1	10.3	6.4	5	2.00	0.907
		450-600	3	4 15/32	3 13/32	2 7/32	1 1/2	2	1 3/32	1/4	113.5	86.5	56.4	38.1	50.8	10.3	6.4	1	1.20	0.544
		400-800	2**	6 15/32	4 21/32	4 9/32	2 7/32	1 7/32	2	2 1/2	164.4	118.3	108.7	56.4	13.5	50.8	63.5	1	2.85	1.293
		1000-1200	3	7	5	3 1/4	2 1/4	3	5/8	3/8	177.8	127.0	82.6	57.2	76.2	15.9	9.5	1	5.10	2.313
KBP	700V	25-30	1	2	—	9/16	—	—	—	—	50.8	—	14.3	—	—	—	—	10	0.35	0.159
		35-60	3	4 3/8	3 5/8	2 7/8	3/4	1	5/16	1/8	111.1	92.1	73.0	19.1	25.4	7.9	3.2	5	1.50	0.680
		70-100	3	4 3/8	3 5/8	2 7/8	7/8	17/32	5/16	3/16	111.1	92.1	73.0	22.2	31.0	7.9	4.8	5	2.35	1.066
		125-200	3	5 3/32	4 1/32	2 27/32	1	1 1/2	1 3/32	1/4	129.4	102.4	72.2	25.4	38.1	10.3	6.4	5	3.95	1.791
		225-400	3	5 3/32	4 1/32	2 27/32	1 1/2	2	1 3/32	1/4	129.4	102.4	72.2	38.1	50.8	10.3	6.4	1	1.40	0.635
		450-600	3	6 11/32	5 3/32	2 27/32	2	2 1/2	17/32	3/8	161.1	129.4	72.2	50.8	63.5	13.5	9.5	1	2.80	1.270

** Terminal Thickness: KAA 70-400, 3/16" (4.8 mm) KAC 100-200, 3/16" (4.8 mm) KAC 70-100, 1/8" (3.2 mm) KBH 700-800, 3/8" (9.5 mm)

Mounting Hole Data: ** 3/8" - 24 × 1/2" (9.5 mm - 24 × 12.7 mm) ■■1/2" - 20 × 1/2 (12.7 mm -20 × 12.7 mm)