

Protection Diodes — continued

600W Transient Voltage Suppression Diodes – continued

SD449

Order Multiple=5		Price Each				
Mfrs. List No.	Order Code	5+	25+	100+	500+	1000+
<b>Bidirectional</b>						
P6KE6.8CA	166-790					
P6KE7.5CA	166-807					
P6KE8.2CA	166-819					
P6KE9.1CA	166-820					
P6KE10CA	166-832					
P6KE12CA	166-844					
P6KE13CA	166-856					
P6KE15CA	166-868					
P6KE16CA	166-870					
P6KE18CA	166-881					
P6KE20CA	166-893					
P6KE22CA	166-900					
P6KE24CA	166-911					
P6KE27CA	166-923					
P6KE30CA	166-935					
P6KE33CA	166-947					
P6KE36CA	166-959					
P6KE39CA	166-960					
P6KE47CA	166-972					
P6KE62CA	167-710					
P6KE68CA	167-721					
P6KE100CA	167-733					
P6KE150CA	167-745					
P6KE160CA	167-757					
P6KE200CA	167-769					
P6KE400CA	167-770					

1500W Transient Voltage Suppression Diodes



DO-201AE Body L = 9.52, Dia. = 5.33

- Glass passivated junction
- 1500W Peak Pulse Power capability at 1.0ms
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time

V <sub>RM</sub> Stand-off Voltage	V <sub>BR</sub> Breakdown Voltage		I (test) mA	Clamping Voltage V (cl) max.		Max. Peak Current A	Max. Reverse Leakage Current μA	Mfrs. List No.
	Min. V	Max. V		max. V	max. V			
<b>1500W Peak Pulse Power (5.0W Steady State @ Ta=75 C)</b>								
5.8	6.45	7.14	10	10.5	143.0	1000	DO-201AE	1.5KE6.8A
6.4	7.13	7.88	10	11.3	133.0	500	DO-201AE	1.5KE7.5A
7.02	7.79	8.61	10	12.1	124.0	200	DO-201AE	1.5KE8.2A
7.78	8.65	9.55	1	13.4	112.0	50	DO-201AE	1.5KE9.1A
8.55	9.5	10.5	1	14.5	103.0	10	DO-201AE	1.5KE10A
10.2	11.4	12.6	1	16.7	90.0	5	DO-201AE	1.5KE12A
11.1	12.4	13.7	1	18.2	82.0	5	DO-201AE	1.5KE13A
12.8	14.3	15.8	1	21.2	71.0	5	DO-201AE	1.5KE15A
13.6	15.2	16.8	1	22.5	67.0	5	DO-201AE	1.5KE16A
15.3	17.1	18.9	1	26.2	59.5	5	DO-201AE	1.5KE18A
17.1	19.0	21.0	1	27.7	54.2	5	DO-201AE	1.5KE20A
18.8	20.9	23.1	1	30.6	49.0	5	DO-201AE	1.5KE22A
20.5	22.8	25.2	1	33.2	45.2	5	DO-201AE	1.5KE24A
23.1	25.7	28.4	1	37.5	40.0	5	DO-201AE	1.5KE27A
25.6	28.5	31.5	1	41.4	36.2	5	DO-201AE	1.5KE30A
28.2	31.4	34.7	1	45.7	33.0	5	DO-201AE	1.5KE33A
30.8	34.2	37.8	1	49.9	30.1	5	DO-201AE	1.5KE36A
33.3	37.1	41.0	1	53.9	28.0	5	DO-201AE	1.5KE39A
40.2	44.7	49.4	1	64.8	23.2	5	DO-201AE	1.5KE47A
53.0	58.9	65.1	1	85.0	17.7	5	DO-201AE	1.5KE62A
58.1	64.6	71.4	1	92.0	16.3	5	DO-201AE	1.5KE68A
85.5	95.0	105.0	1	137.0	11.0	5	DO-201AE	1.5KE100A
128.0	143.0	158.0	1	207.0	7.2	5	DO-201AE	1.5KE150A
136.0	152.0	168.0	1	219.0	6.8	5	DO-201AE	1.5KE160A
171.0	190.0	210.0	1	274.0	5.5	5	DO-201AE	1.5KE200A
342.0	380.0	420.0	1	548.0	2.8	5	DO-201AE	1.5KE400A

SD450

Mfrs. List No.		Price Each				
Unidirectional	Order Code	1+	25+	100+	500+	1000+
1.5KE6.8A	166-080					
1.5KE7.5A	166-091					
1.5KE8.2A	166-108					
1.5KE9.1A	166-110					
1.5KE10A	166-121					
1.5KE12A	166-133					
1.5KE13A	166-145					
1.5KE15A	166-157					
1.5KE16A	166-169					
1.5KE18A	166-170					
1.5KE20A	166-182					
1.5KE22A	166-194					
1.5KE24A	166-200					
1.5KE27A	166-212					
1.5KE30A	166-224					
1.5KE33A	166-236					
1.5KE36A	166-248					
1.5KE39A	166-250					
1.5KE47A	166-261					
1.5KE62A	166-273					
1.5KE68A	166-285					

continued

Mfrs. List No.	Order Code	1+	25+	100+	500+	1000+
<b>Unidirectional – continued</b>						
1.5KE100A	166-297					
1.5KE150A	166-303					
1.5KE160A	166-315					
1.5KE200A	166-327					
1.5KE400A	166-339					
<b>Bidirectional</b>						
1.5KE6.8CA	166-340					
1.5KE7.5CA	166-352					
1.5KE8.2CA	166-364					
1.5KE9.1CA	166-376					
1.5KE10CA	166-388					
1.5KE12CA	166-390					
1.5KE13CA	166-406					
1.5KE15CA	166-418					
1.5KE16CA	166-420					
1.5KE18CA	166-431					
1.5KE20CA	166-443					
1.5KE22CA	166-455					
1.5KE24CA	166-467					
1.5KE27CA	166-479					
1.5KE30CA	166-480					
1.5KE33CA	166-492					
1.5KE36CA	166-509					
1.5KE39CA	166-510					
1.5KE47CA	166-522					
1.5KE62CA	166-534					
1.5KE68CA	166-546					
1.5KE100CA	166-558					
1.5KE150CA	166-560					
1.5KE160CA	166-571					
1.5KE200CA	166-583					
1.5KE400CA	166-595					

Trans-Zorb®

GENERAL SEMICONDUCTOR



a L = 6.5, Dia. = 3.2; b L = 8.5, Dia. = 4.6; c L = 9.4, Dia. = 5.2  
Connections: Band to positive supply. No band on bipolar types.

- TransZorbs® are semiconductor devices which are designed for transient voltage suppression applications
- They offer ultra-fast response time, high surge handling capability and flat voltage clamping at high currents
- Typical applications include the protection of CMOS, NMOS, TTL and MPU devices
- Unidirectional types are suitable for dc applications and bidirectional types are suitable for ac applications
- All 5% tolerance devices

Stand-Off Voltage V <sub>RM</sub> (V)	V <sub>BR</sub> Breakdown Voltage (V)	Clamping Voltage Max. V <sub>(CL)</sub> R <sub>(V)</sub>	I <sub>T</sub> mA	Ptot @ T <sub>C</sub> = 75° C (W)	Max. Peak Pulse Current (A)	Package	Mfrs. List No.	Order Code
<b>500W Range (Unidirectional – dc)</b>								
5.0	6.4 - 7.3	9.6	10	1	52.0	a	SA5.0A	607-812
12.0	13.3 - 16.3	22.0	1	1	22.7	a	SA12A	607-824
15.0	16.7 - 20.4	26.9	1	1	18.8	a	SA15A	607-836
24.0	26.7 - 32.6	43.0	1	1	11.6	a	SA24A	607-848
30.0	33.3 - 40.7	53.5	1	1	9.3	a	SA30A	607-850
<b>1500W Range (Unidirectional – dc)</b>								
5.5	6.12 - 7.48	10.8	10	5	139.0	c	1.5KE6.8A	607-861
9.4	10.5 - 11.6	15.6	1	5	96.0	c	1.5KE11A	318-840
12.9	14.4 - 17.6	23.5	1	5	64.0	c	1.5KE16A	608-873
15.3	17.1 - 18.9	25.2	1	5	59.5	c	1.5KE18A	318-875
17.8	19.8 - 24.2	31.0	1	5	47.0	c	1.5KE22A	607-885
21.8	24.3 - 29.7	39.1	1	5	38.5	c	1.5KE27A	607-897
24.3	27.0 - 33.0	43.5	1	5	34.5	c	1.5KE30A	607-903
29.1	32.4 - 39.6	52.0	1	5	29.0	c	1.5KE36A	607-927
38.1	42.3 - 51.7	67.8	1	5	22.2	c	1.5KE47A	607-939
130.0	144 - 276	230.0	1	5	6.5	c	1.5KE160A	607-940
140.0	360 - 440	574.0	1	5	5.0	c	1.5KE400A	607-952
<b>500W Range (Bidirectional – ac)</b>								
12.0	13.3 - 16.3	22.0	1	1	22.7	a	SA12CA	607-976
15.0	16.7 - 20.4	18.8	1	1	18.8	a	SA15CA	607-988
24.0	26.7 - 32.6	43.0	1	1	11.6	a	SA24CA	607-990
30.0	30.3 - 40.7	53.5	1	1	9.3	a	SA30CA	608-002
<b>1500W Range (Bidirectional – ac)</b>								
5.5	6.12 - 7.48	10.8	1	5	139.0	c	1.5KE6.8CA	608-014
8.92	9.9 - 12.1	16.2	1	5	93.0	c	1.5KE11CA	608-026
12.9	14.4 - 17.6	23.5	1	5	64.0	c	1.5KE16CA	608-038
14.5	16.2 - 19.8	26.5	1	5	56.5	c	1.5KE18CA	608-040
17.8	19.8 - 24.2	31.9	1	5	47.0	c	1.5KE22CA	608-051
21.8	24.3 - 29.7	39.1	1	5	38.5	c	1.5KE27CA	608-063
24.3	27.0 - 33.0	43.5	1	5	34.5	c	1.5KE30CA	608-075
26.8	29.7 - 36.3	47.7	1	5	31.5	c	1.5KE33CA	608-087
29.1	32.4 - 39.6	52.0	1	5	29.0	c	1.5KE36CA	608-099
38.1	42.3 - 51.7	67.8	1	5	22.2	c	1.5KE47CA	608-105
130.0	144 - 276	230.0	1	5	6.5	c	1.5KE160CA	608-117
324.0	360 - 440	574.0	1	5	4.0	c	1.5KE400CA	608-129

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