# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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S4KW12KA-3 S4KW16KA-4 S4KW20KA-5 S4KW24KA-6

January 29, 1998

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### HIGH VOLTAGE, HIGH CURRENT, HIGH DENSITY, STANDARD RECOVERY RECTIFIER ASSEMBLY

- Up to 20A forward current and 24kV reverse voltage
- Air or oil environment
- High reverse surge current
- High thermal shock resistance
- Integral cooling fins

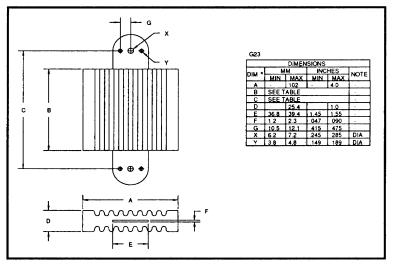
#### **QUICK REFERENCE** DATA

- $V_R = 4kV 24kV$
- lF = 8.0 - 20.0A (in oil)
- $= 4.0 \mu A$ lR 🛛
- $I_{FSM} = 500A$

#### **ABSOLUTE MAXIMUM RATINGS**

	Working Average Rectified Current IF(A		nt I <sub>F(AV)</sub>	1 Cycle Surge Current $t_p = 8.3$ mS		Repetitive Surge	$I^{2}t$ $t_{p} = 8.3mS$		
Device	Reverse Voltage	air @ 25 ℃	air @ 65 ℃	forced air 600CFM	still oil @ 55 °C	IFSM		Current I <sub>FRM</sub>	tp = 0.5115
Туре	VRWM	<b>U</b> 25 C		@ 55°C		@ 25 °C	@ 100 °C	@ 25 ℃	@ 25 °C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	A <sup>2</sup> S
S4KW4KA-1	4000	8.0	5.4	16.0	20.0	1	1		T T
S4KW8KA-2	8000	6.0	4.0	12.0	15.0		300	90	1000
S4KW12KA-3	12000	6.0	4.0	12.0	15.0	500			
S4KW16KA-4	16000	6.0	4.0	12.0	15.0				
S4KW20KA-5	20000	6.0	4.0	12.0	15.0				
S4KW24KA-6	24000	6.0	4.0	12.0	15.0	Ļ	Ļ		Ļ

#### **MECHANICAL**



Dimensions (see drawing)				
B (max)	C (max)			
inches	inches			
4.780	6.480			
7.980	9.680			
11.18	12.88			
14.38	16.08			
17.58	19.28			
20.78	22.48			



#### STANDARD RECOVERY S4KW4KA-1 S4KW8KA-2 S4KW12KA-3 S4KW16KA-4 S4KW20KA-5 S4KW24KA-6

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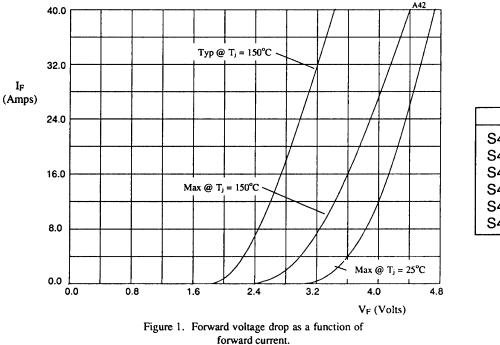
Device	Leakage	n Reverse Current V <sub>RWM</sub>	Maximum Forward Voltage VF @ 12.0A	Maximum Reverse Recovery Time <sup>1</sup>	
Туре	@ 25 °C	@ 100 °C	@ 25°C	t <sub>rr</sub> @ 25°C	
	μA	μA	Volts	μS	
S4KW4KA-1	l †	t	4.0	t t	
S4KW8KA-2			8.0		
S4KW12KA-3	4.0	1 80	12.0	2.0	
S4KW16KA-4	4.0		16.0	2.0	
S4KW20KA-5			20.0		
S4KW24KA-6	↓	│↓	24.0	↓	

#### **CHARACTERISTICS**

<sup>1</sup> Measured on discrete devices prior to assembly

Storage temperature range

-55 °C to +150 °C -55 °C to +150 °C





DEVICE	X-axis
S4KW4KA-1	x1
S4KW8KA-2	x2
S4KW12KA-3	x3
S4KW16KA-4	x4
S4KW20KA-5	x5
S4KW24KA-6	x6