



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HIGH VOLTAGE, HIGH CURRENT, STANDARD RECOVERY DOUBLER AND CENTER TAPS

- Up to 48kV reverse voltage
- Air or oil environment
- High reverse surge current
- High thermal shock resistance
- Integral cooling fins

QUICK REFERENCE DATA

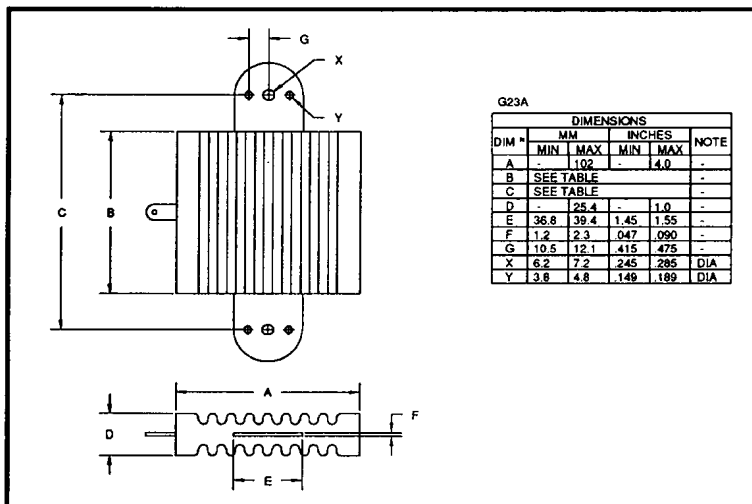
- $V_R = 8kV - 48kV$
- $I_F = 7.5 - 10.0A$ (in oil)
- $I_R = 1.0 \mu A$
- $I_{FSM} = 150 A$

ABSOLUTE MAXIMUM RATINGS (apply per leg)

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current				1 Cycle Surge Current $t_p = 8.3mS$		Repetitive Surge Current	I^2t
		air @ 25°C	air @ 65°C	forced air 600CFM @ 55°C	in oil @ 25°C	@ 25°C	@ 100°C	@ 25°C	$t_p = 8.3mS$
		Volts	Amps	Amps	Amps	Amps	Amps	Amps	A ² S
S1KW8C-1*	8000	4.0	2.75	8.0	10.0	↑	↑	↑	↑
S1KW16C-2*	16000	3.0	2.0	6.0	7.5	↑	↑	↑	↑
S1KW24C-3*	24000	3.0	2.0	6.0	7.5	150	100	45	90
S1KW32C-4*	32000	3.0	2.0	6.0	7.5	↓	↓	↓	↓
S1KW40C-5*	40000	3.0	2.0	6.0	7.5	↓	↓	↓	↓
S1KW48C-6*	48000	3.0	2.0	6.0	7.5	↓	↓	↓	↓

* add suffix for desired circuit arrangement
D = doubler, N = Negative center tap, P = positive center tap
($I_O \times 0.5$ for doubler)

MECHANICAL



Dimensions (see drawing)	
B ±0.030"	C ±0.030"
inches	inches
4.78	6.48
7.98	9.68
11.18	12.88
14.38	16.08
17.58	19.28
20.78	22.48

January 9, 1998

CHARACTERISTICS (apply per leg)

Device Type	Reverse Current @ V_{RWM}		Maximum Forward Voltage $V_F @ 3.0A @ 25^\circ C$	Maximum Reverse Recovery Time ¹ $t_{rr} @ 25^\circ C$
	@ 25 °C	@ 100 °C		
	μA	μA	Volts	μS
S1KW8C-1*	↑ 1.0 ↓	↑ 20 ↓	8	↑ 2.0 ↓
S1KW16C-2*			16	
S1KW24C-3*			24	
S1KW32C-4*			32	
S1KW40C-5*			40	
S1KW48C-6*			48	

¹ Measured on discrete devices prior to assembly

Operating temperature range -55 °C to +150 °C
Storage temperature range -55 °C to +150 °C

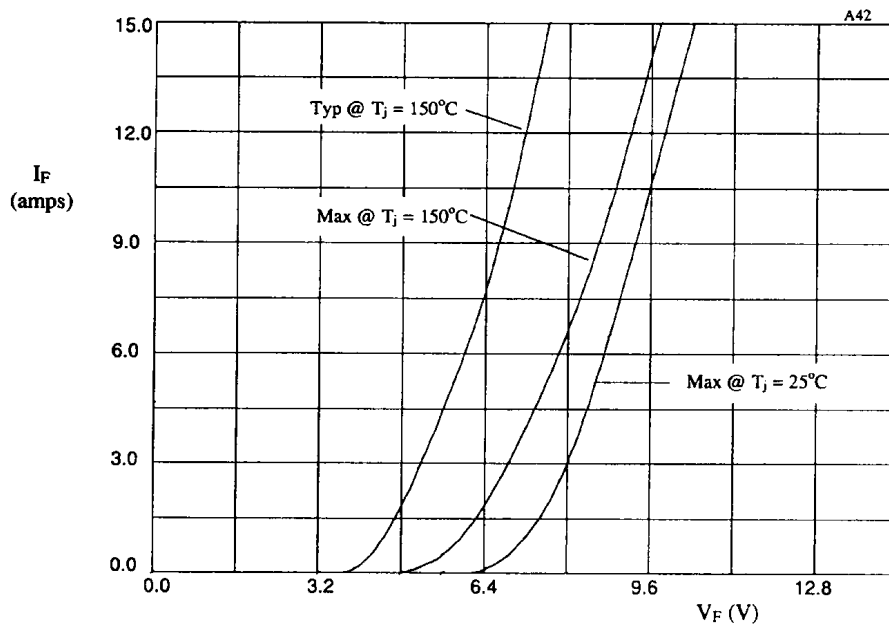


TABLE 1

DEVICE	X-axis
S1KW8C-1*	x1
S1KW16C-2*	x2
S1KW24C-3*	x3
S1KW32C-4*	x4
S1KW40C-5*	x5
S1KW48C-6*	x6

Figure 1. Forward voltage drop per leg as a function of forward current for use with table 1.