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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S4KW2C-1* S4KW4C-2* S4KW8C-4* S4KW10C-5* S4KW12C-6*

January 9, 1998

TEL:805-498-2111 FAX:805-498-3804 WEB:http://www.semtech.com

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

- Up to 12kV reverse voltage
- Air or oil environment ٠
- Low reverse leakage currents
- High forward current and surge ratings
- ٠ Integral cooling fins

QUICK REFERENCE DATA

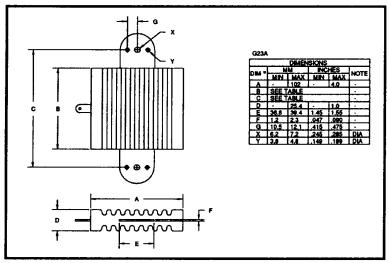
- $V_R = 2kV 12kV$
- = 30 40A (in oil) F
- $= 4.0 \mu A$ IR.
- $I_{FSM} = 500A$

ABSOLUTE MAXIMUM RATINGS (apply per leg)

| Device | Working Reverse | Ave | verage Rectified Current | | 1 Cycle Surge Current tp = 8.3mS | | Repetitive Surge | $I^{2}t$ $t_{p} = 8.3mS$ | |
|------------|--------------------|----------------|--------------------------|----------------------|-------------------------------------|----------|---------------------|-----------------------------|------------------|
| Type | Voltage | air @ 25 °C | air @ 65 °C | forced air 600CFM | in oil @ 25 °C | @ 25°C | @ 100 °C | Current @ 25°C | @ 25°C |
| | V _{RWM} | | | @ 55°C | | | | 6 25C | |
| | Volts | Amps | Amps | Amps | Amps | Amps | Amps | Amps | A ² S |
| S4KW2C-1* | 2000 | 16 | 11 | 16 | 40 | t | t | l 🕇 | t |
| S4KW4C-2* | 4000 | 12 | 8 | 12 | 30 | | | | |
| S4KW6C-3* | 6000 | 12 | 8 | 12 | 30 | ا 500 | 400 | 80 | 975 |
| S4KW8C-4* | 8000 | 12 | 8 | 12 | 30 | 300 | 400 | 00 | 975 |
| S4KW10C-5* | 10000 | 12 | 8 | 12 | 30 | | | | |
| S4KW12C-6* | 12000 | 12 | 8 | 12 | 30 | Ļ | Ļ | Ļ | Ļ |

add suffix for desired circuit arrangement D = doubler, N = Negative center tap, P = positive center tap $(I_0 \times 0.5 \text{ for doubler})$

MECHANICAL



| | Dimensions (see drawing) | | | |
|-----------|-----------------------------|--|--|--|
| B ±0.030" | C <u>+</u> 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 | | | |
| | | | | |



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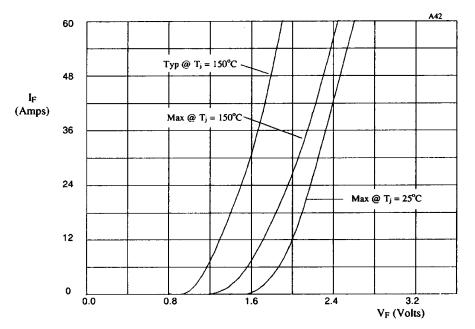
| CHARACTERISTICS | (apply | per | leg) |
|------------------------|--------|-----|------|
|------------------------|--------|-----|------|

| Device Type | Reverse Current @ V _{RWM} @ 25°C @ 100 °C | | Maximum Forward Voltage V _F @ 12A @ 25°C | Maximum Reverse Recovery Time ¹ |
|--|--|---------|---|---|
| | μA | μΑ | Volts | t _{rr} @ 25°C μS |
| S4KW2C-1* S4KW4C-2* S4KW6C-3* S4KW8C-4* S4KW10C-5* S4KW12C-6* | 4.0 | 80 ↓ | 2.00 4.00 6.00 8.00 10.0 12.0 | 2.0 |

¹ Measured on discrete devices prior to assembly

| Operating temperature range | -55 |
|-----------------------------|-----|
| Storage temperature range | -55 |

| 55 | °C | to | +150 | °C |
|----|----|----|------|----|
| 55 | °С | to | +150 | °C |





| DEVICE | X-axis |
|------------|--------|
| S4KW2C-1* | x1 |
| S4KW4C-2* | x2 |
| S4KW6C-3* | x3 |
| S4KW8C-4* | x4 |
| S4KW10C-5* | x5 |
| S4KW12C-6* | x6 |

