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.

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January 8, 1998

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QUICK REFERENCE DATA

- V_R = 15kV - 45kV
- I_F = 50mA (in air)
- I_R = 1.0µA
- I_{FSM} = 25A

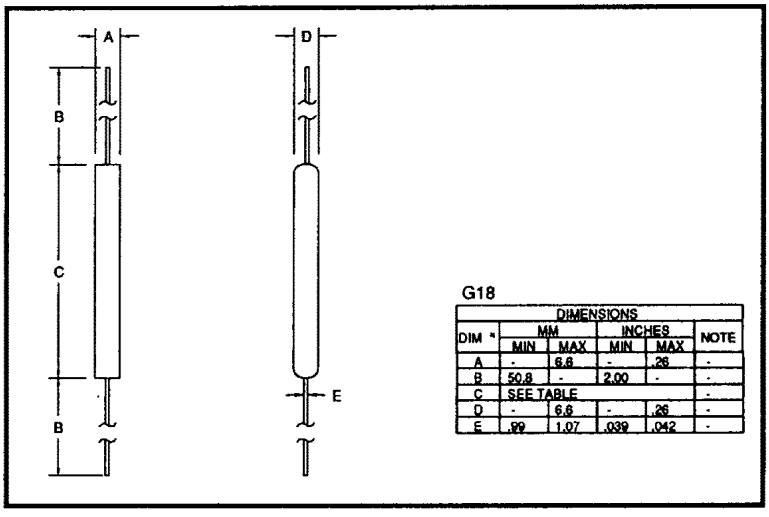
HIGH VOLTAGE, HIGH DENSITY, LEADED SILICON RECTIFIER ASSEMBLY

- Low forward voltage drops
- Low reverse leakage current
- High thermal shock resistance
- Corona free construction
- Low distributed capacitance

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current @ 55°C	Average Rectified Current @ 100°C	Average Rectified Current Forced air 600CFM, 55°C	Average Rectified Current in still oil @ 55 °C	1 Cycle Surge Current I_{FSM} t_p = 8.3mS @ $T_{J\ MAX}$	I^2t t_p = 8.3mS @ $T_{J\ MAX}$	Repetitive Surge Current I_{FRM} @ 25°C	Case Length Max Dim C
	Volts	Amps	Amps	Amps	Amps	Amps	A^2S	Amps	inches
SCHJ15K	15000								1.52
SCHJ22.5K	22500								2.02
SCHJ30K	30000	0.05	0.03	0.1	0.1	25	2.6	2.5	2.52
SCHJ37.5K	37500								3.02
SCHJ45K	45000								3.52

MECHANICAL



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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM} @ 25 °C	Maximum Reverse Leakage Current I_R @ V_{RWM} @ 100 °C	Maximum Forward Voltages V_F @ 0.1A @ 25°C	Maximum Reverse Recovery Time [1] @ 25°C
	µA	µA	Volts	µS
SCHJ15K	↑	↑	20	↑
SCHJ22.5K			30	
SCHJ30K	1.0	20	40	2.5
SCHJ37.5K			50	
SCHJ45K	↓	↓	60	↓

1. Measured on discrete devices prior to assembly

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

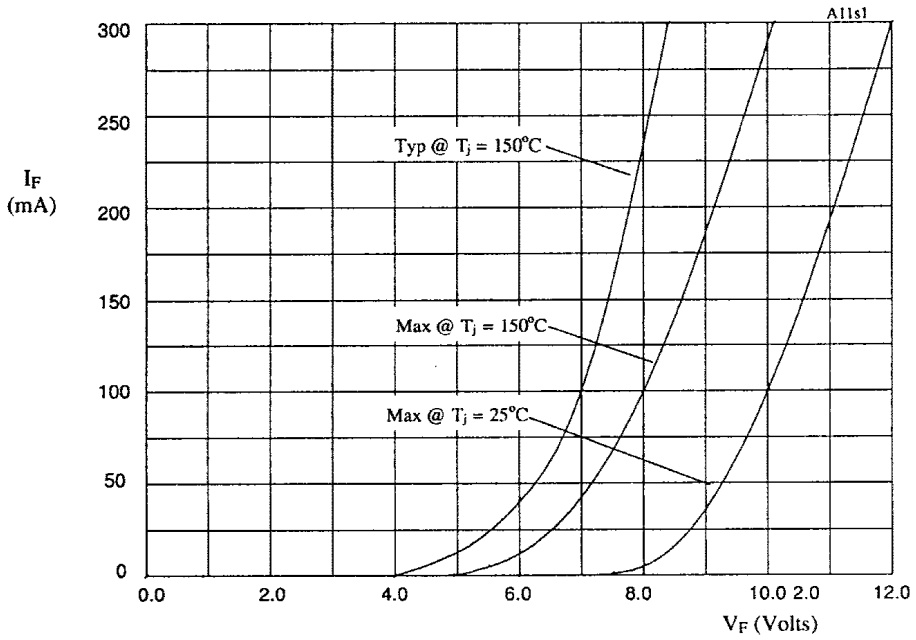

Fig 1. Forward voltage drop as a function of forward current for use with table 1.

TABLE 1

DEVICE	X-AXIS
SCHJ15K	x2
SCHJ22.5K	x3
SCHJ30K	x4
SCHJ37.5K	x5
SCHJ45K	x6

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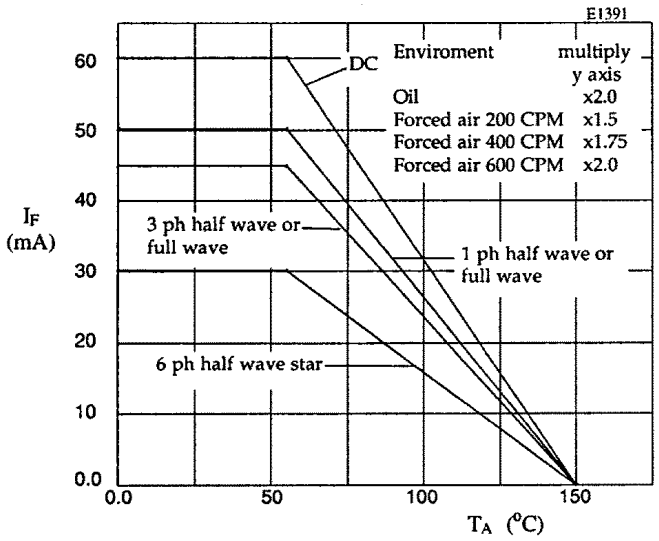

Figure 2. Maximum forward currents against ambient temperature.

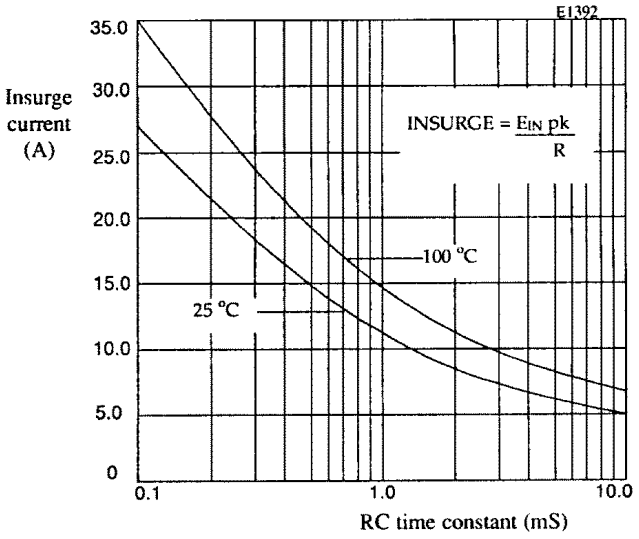

Figure 3. Maximum ratings for capacitive loads. Insurge current versus RC time constant

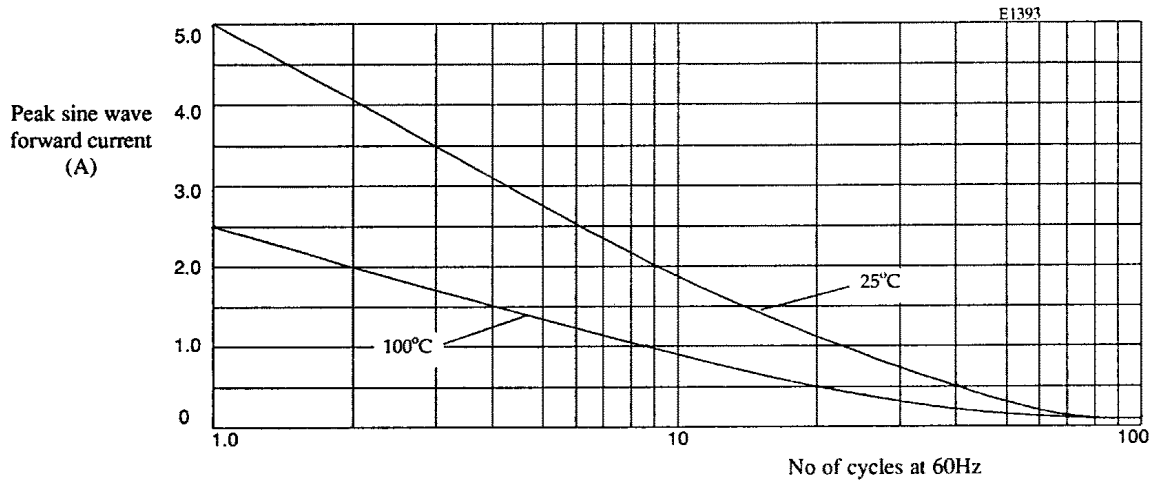

Figure 4. Non repetitive forward current surge curves for 25°C and 100°C