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 = 2000 - 12000V
- I_F = 1.5A
- I_R = 5.0µA
- t_{rr} = 150nS

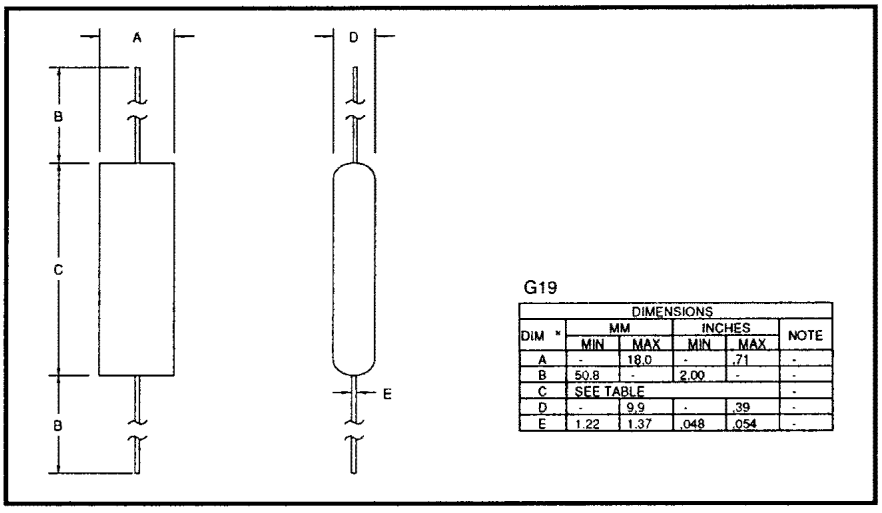
HIGH VOLTAGE, HIGH DENSITY, FAST RECOVERY LEADED SILICON RECTIFIER ASSEMBLY

- Low reverse recovery time
- Low reverse leakage currents
- High thermal shock resistance
- Corona free construction
- Low distributed capacitance

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage (V_{RWM})	Average Rectified Current $I_{F(AV)}$		Repetitive Surge Current	1 Cycle Surge Current t_p = 8.3mS (sinusoidal) I_{FSM}		I^2t t_p = 8.3mS	Case Length Max
		@ 55 °C	@ 100 °C	@ 25 °C	@ 25 °C	@ 100 °C	@ 25 °C	dim. C
	Volts	Amps	Amps	Amps	Amps	Amps	A^2S	inches
SCFS2000	2000	1.5	1.0	10.0	150	75	93	1.53
SCFS4000	4000							2.53
SCFS6000	6000							3.53
SCFS8000	8000							4.53
SCFS10000	10000							5.53
SCFS12000	12000							6.53

MECHANICAL



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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Leakage Current @ V_{RWM} I_R		Maximum Forward Voltage drop V_F @ 3.0A	Maximum Reverse Recovery Time (1) t_{rr} @ 25 °C
	@ 25 °C	@ 100 °C	@ 25 °C	
	µA	µA	Volts	nS
SCFS2000	5.0	25	5.4	150
SCFS4000			9.0	
SCFS6000			12.6	
SCFS8000			16.2	
SCFS10000			19.8	
SCFS12000			23.4	

(1) measured on discrete devices prior to assembly

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

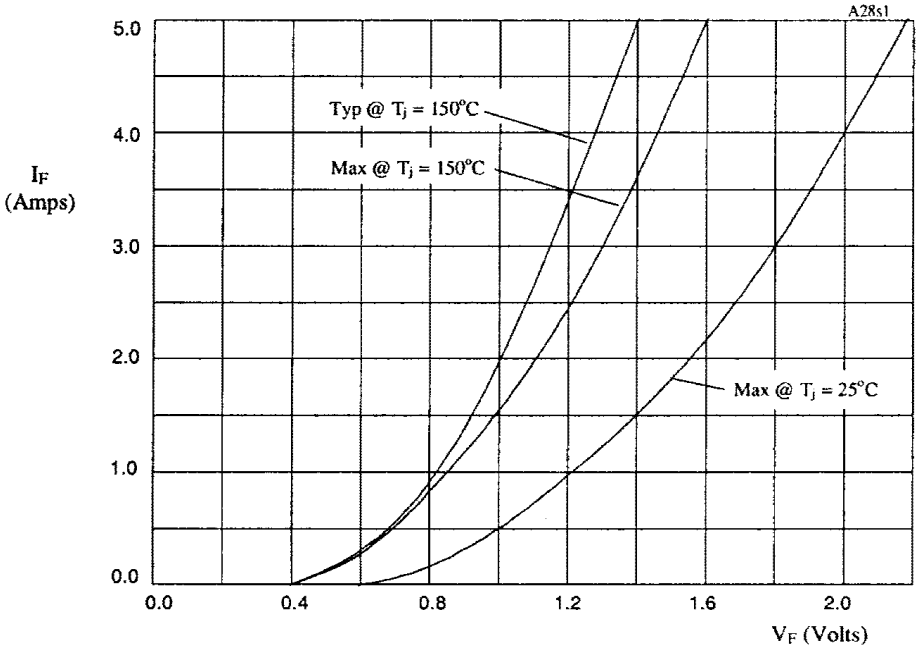

Fig 1. Forward voltage drop as a function of forward current.

TABLE 1

DEVICE	X-AXIS
SCFS2000	x3
SCFS4000	x5
SCFS6000	x7
SCFS8000	x9
SCFS10000	x11
SCFS12000	x13

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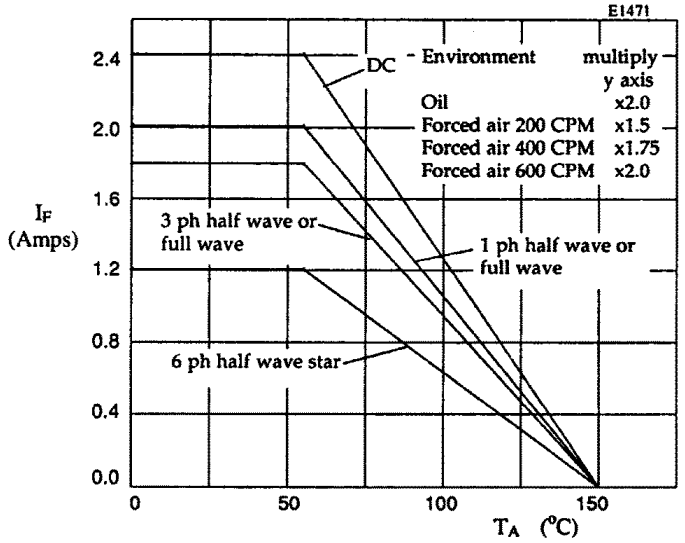

Figure 2. Maximum average forward currents against ambient temperature.

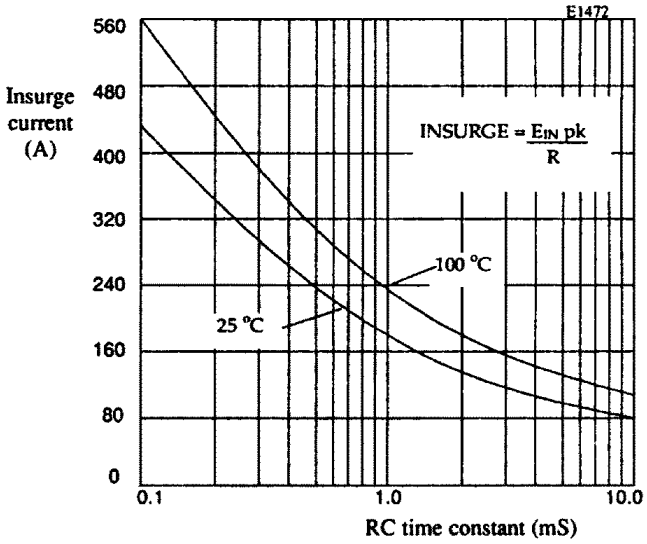

Figure 3. Maximum ratings for capacitive loads. Insurge current versus RC time constant

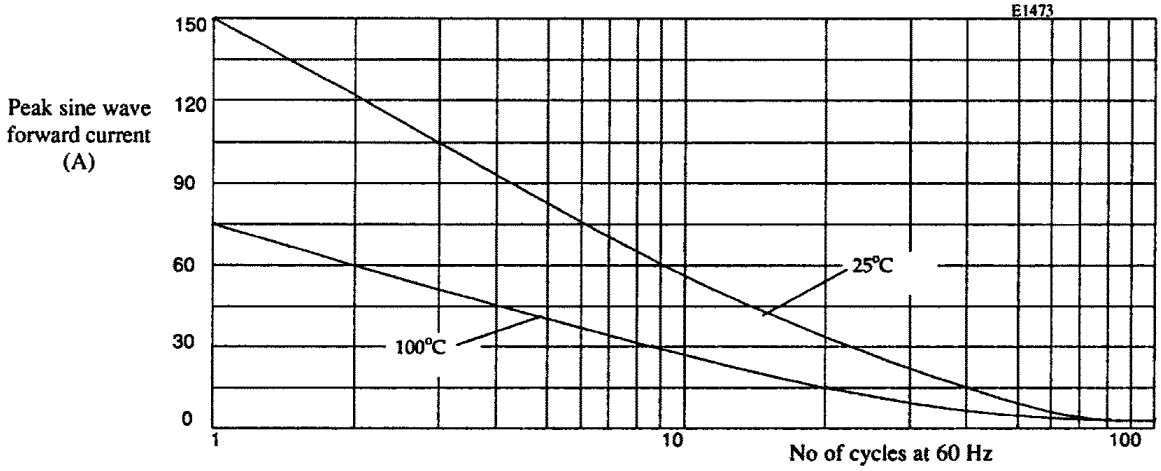

Figure 4. Non repetitive forward current surge curves for 25°C and 100°C