



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!



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

QUICK REFERENCE DATA

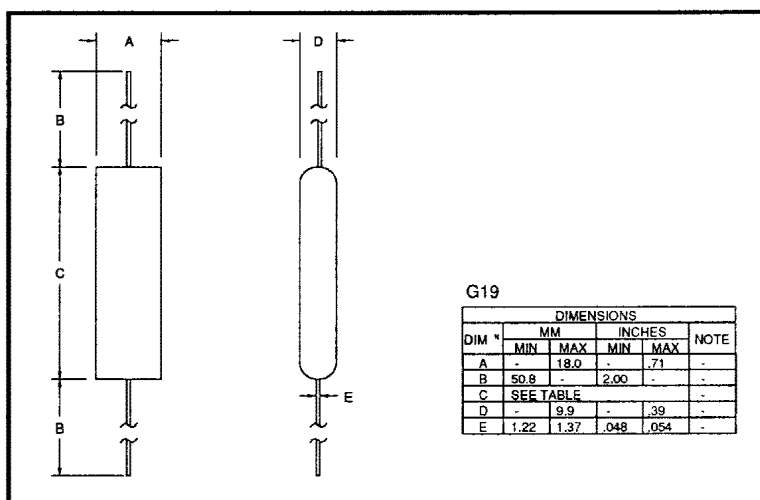
- Low reverse leakage current
- Low forward voltage drop
- High thermal shock resistance
- Corona free construction
- Low distributed capacitance

- $V_R = 2500V - 15000V$
- $I_F = 2.0A$
- $I_R = 1.0 \mu A$
- $I_{FSM} = 80A$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_F(AV)$				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 @ $25^\circ C$	Case Length dim. C Max
		@ $55^\circ C$	@ $100^\circ C$	Forced air 600CFM, $25^\circ C$	in still oil @ $55^\circ C$				
		Amps	Amps	Amps	Amps	Amps	A ² S	Amps	Inches
SCHS2500	2500	↑	↑	↑	↑	↑	↑	↑	1.53
SCHS5000	5000	↑	↑	↑	↑	↑	↑	↑	2.53
SCHS7500	7500	2.0	1.2	2.0	4.0	80	26	31	3.53
SCHS10000	10000	↓	↓	↓	↓	↓	↓	↓	4.53
SCHS12500	12500	↓	↓	↓	↓	↓	↓	↓	5.53
SCHS15000	15000	↓	↓	↓	↓	↓	↓	↓	6.53

MECHANICAL



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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM}		Maximum Forward Voltages V_F @ 3.0A @ 25°C	Maximum Reverse Recovery Time ⁽¹⁾ @ 25°C
	@ 25 °C	@ 100 °C		
	μA	μA	Volts	μS
SCHS2500	1.00	10.0	3.45	2.5
SCHS5000			5.75	
SCHS7500			9.20	
SCHS10000			11.50	
SCHS12500			14.95	
SCHS15000			18.40	

1. Measured on discrete devices prior to assembly.

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

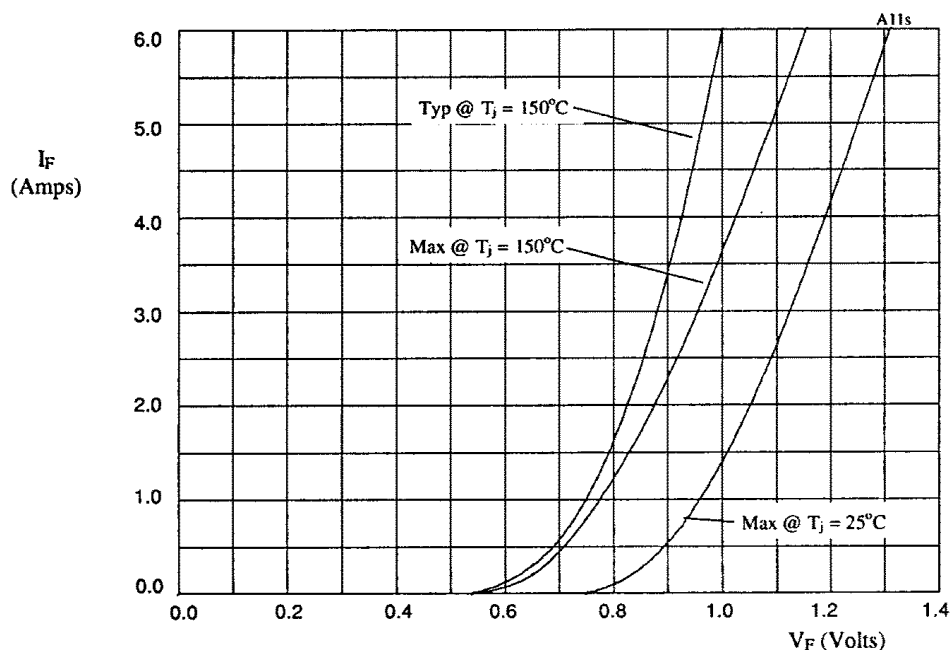


TABLE 1

DEVICE	X-AXIS
SCHS2500	x3
SCHS5000	x6
SCHS7500	x8
SCHS10000	x10
SCHS12500	x13
SCHS15000	x16

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

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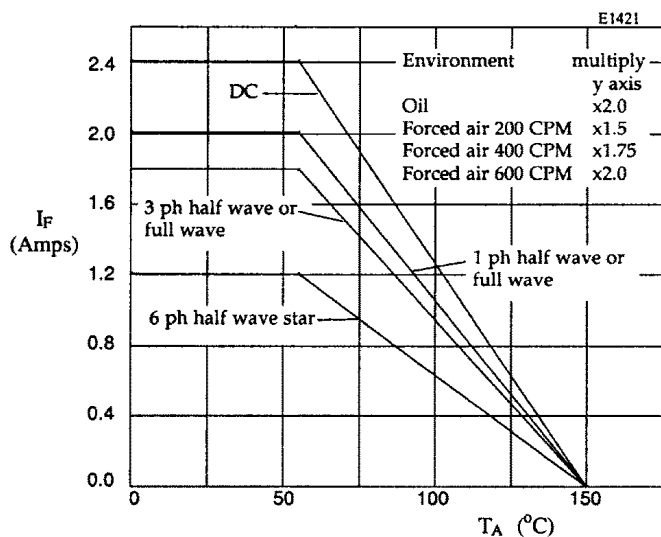


Figure 2. Maximum forward current against ambient temperature.

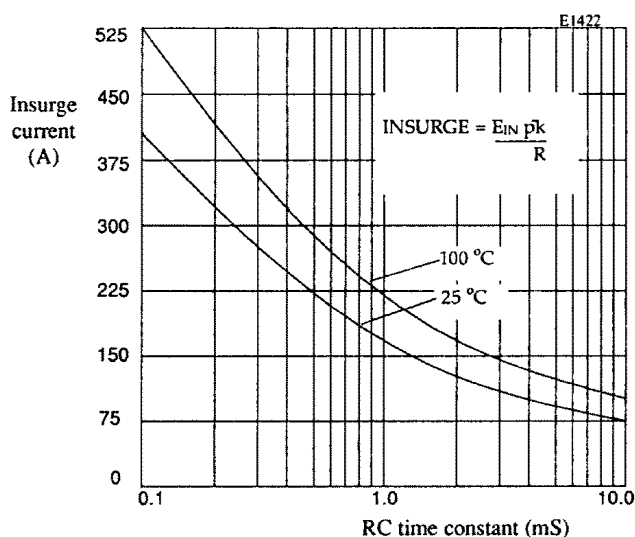


Figure 3. Maximum ratings for capacitive loads. Insurge current versus RC time constant

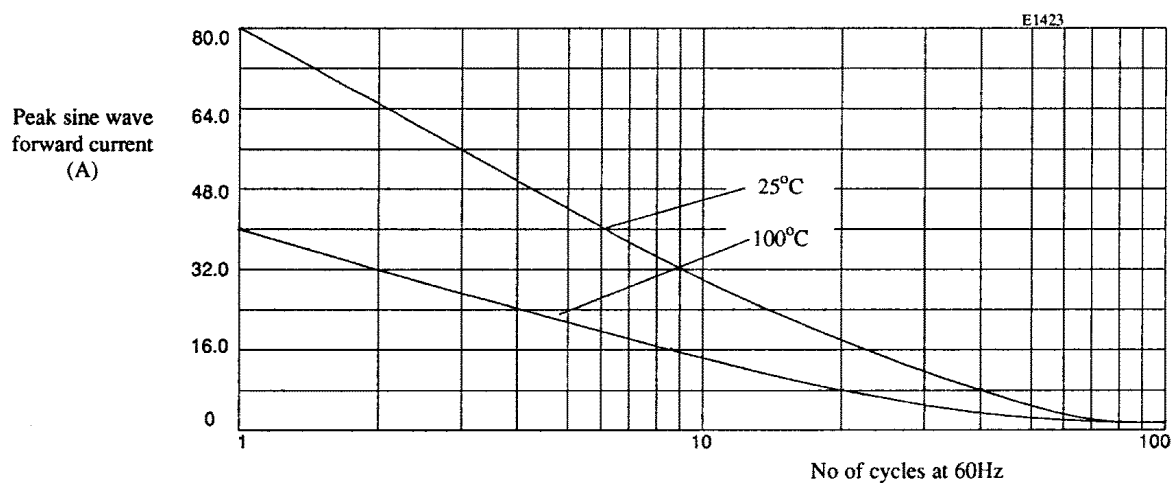


Figure 4. Non repetitive forward current surge curves.