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

January 9, 1998

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

HIGH CURRENT, HIGH DENSITY, FAST RECOVERY DOUBLER AND CENTER TAPS

- High power industrial and military applications
- High forward current applications
- Low thermal impedance
- Low forward voltage drop
- High forward surge ratings

QUICK REFERENCE DATA

- V_R = 1000V
- I_F = 120A
- t_{rr} = 150nS
- I_{FSM} = 750A

ABSOLUTE MAXIMUM RATINGS

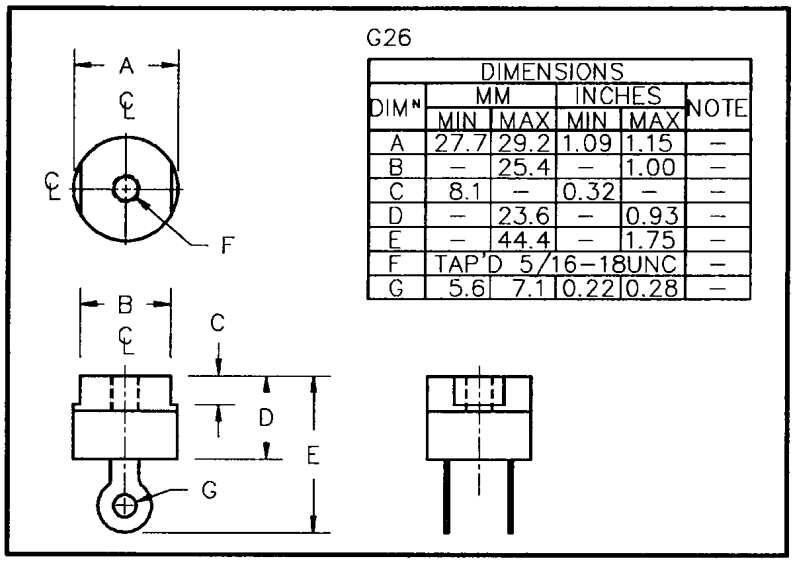
Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current @ 25°C	Average Rectified Current @ 55°C	Average Rectified Current @ 100°C	1 Cycle Surge Current t_p = 8.3mS @ 25°C	1 Cycle Surge Current t_p = 8.3mS @ 100°C
	Volts	Amps	Amps	Amps	Amps	Amps
SCSDF4L	400	60	50	32.5		
SCSNF4L	400	120	100	65	750	600
SCSPF4L	400	120	100	65		

CHARACTERISTICS

Reverse Current @ V_{RWM} @ 25 °C	Reverse Current @ V_{RWM} @ 100 °C	Maximum Forward Voltages V_F @ 18A @ 25°C	Maximum Reverse Recovery Time t_{rr} @ 25°C
µA	µA	Volts	nS
6.0	200	1.1	
6.0	200	1.1	150
6.0	200	1.1	

Operating and Storage temperature range T_{OP} & T_{STG}	Maximum junction - case thermal impedance $R_{\theta JC}$
Volts	°C/W
-55 to +150	0.5

MECHANICAL



G26

DIMENSIONS					
DIM	MM MIN	MM MAX	INCHES MIN	INCHES MAX	NOTE
A	27.7	29.2	1.09	1.15	–
B	–	25.4	–	1.00	–
C	8.1	–	0.32	–	–
D	–	23.6	–	0.93	–
E	–	44.4	–	1.75	–
F	TAP'D 5/16–18UNC				–
G	5.6	7.1	0.22	0.28	–

January 9, 1998

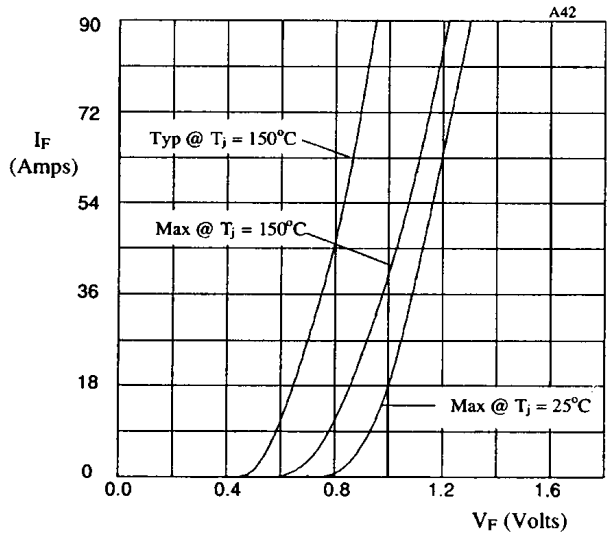


Fig 1. Forward voltage drop per leg as a function of forward current.

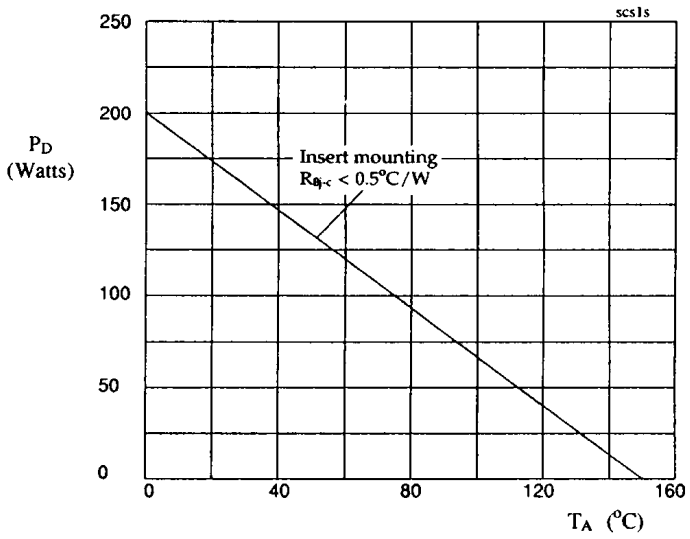


Fig 2. Power dissipation as a function of ambient temperature.

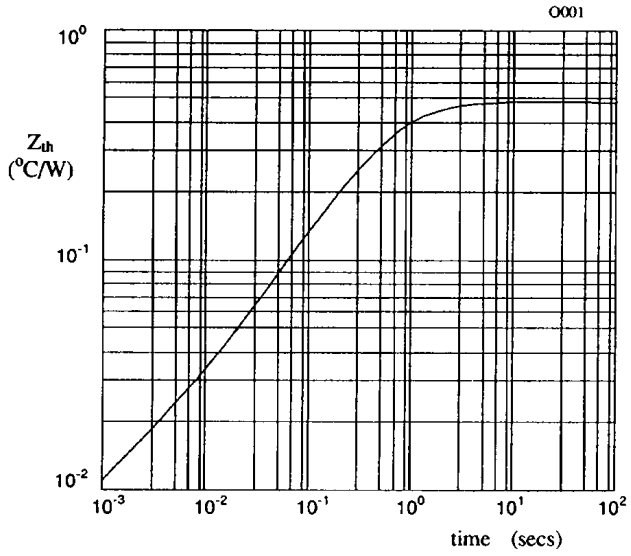


Figure 3. Transient thermal impedance characteristic when insert mounted.

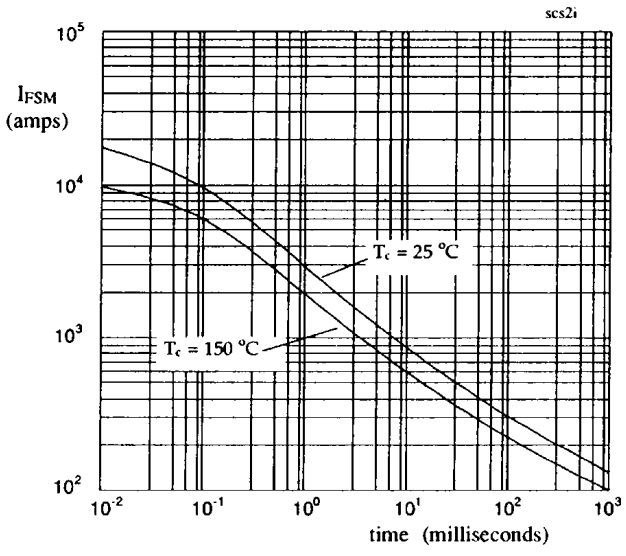


Figure 4. Maximum non-repetitive surge current against pulse width for 25°C and 150°C.