



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, STANDARD 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

- $V_R = 1000V$
- $I_F = 150A$
- $t_{rr} = 2\mu S$
- $I_{FSM} = 750A$

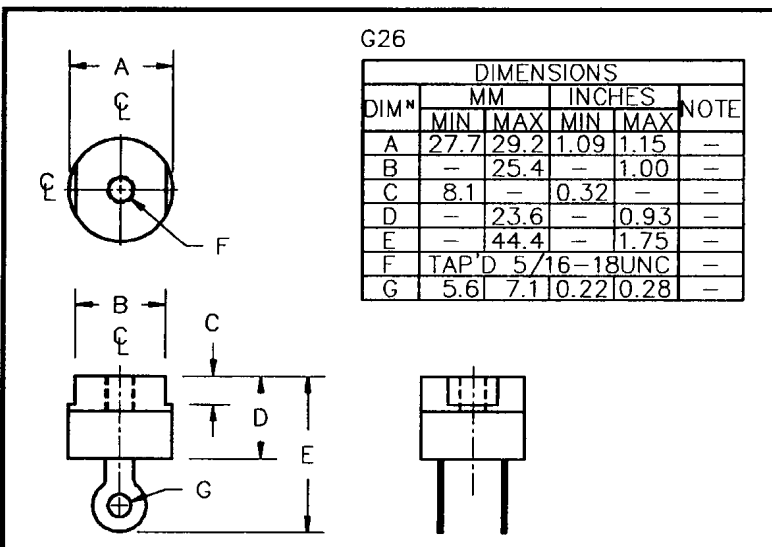
ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM} Volts	Average Rectified Current			1 Cycle Surge Current $t_p = 8.3mS$	
		@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C
		Amps	Amps	Amps	Amps	Amps
SCSDM0L	1000	75	55	35		
SCSNM0L	1000	150	110	70	750	600
SCSPM0L	1000	150	110	70		

CHARACTERISTICS

Reverse Current @ V_{RWM}		Maximum Forward Voltages $V_F @ 18A @ 25°C$ Volts	Maximum Reverse Recovery Time $t_{rr} @ 25°C$ μS
@ 25°C	@ 100°C		
μA	μA		
6.0	200	1.0	
6.0	200	1.0	2.0
6.0	200	1.0	

MECHANICAL



Operating and Storage temperature range $T_{OP} \& T_{STC}$ Volts	Maximum junction - case thermal impedance $R_{\theta jc}$ °C/W
-55 to +150	↑ 0.50 ↓

January 9, 1998

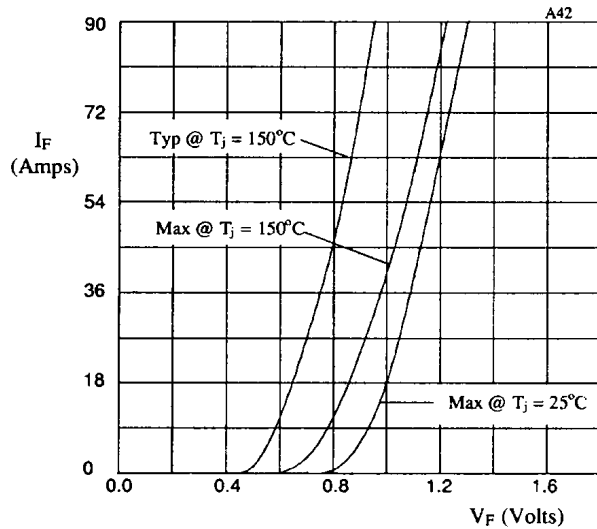


Fig 1. Forward voltage drop per leg as a function of forward current.

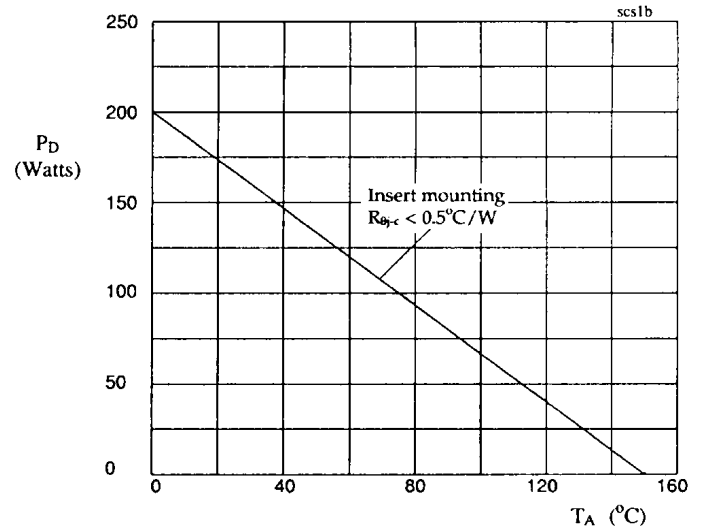


Fig 2. Power dissipation as a function of ambient temperature.

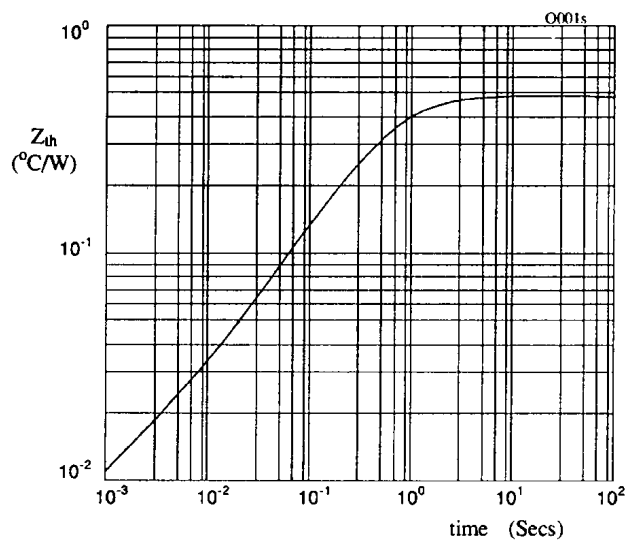


Figure 3. Transient thermal impedance characteristic when insert mounted.

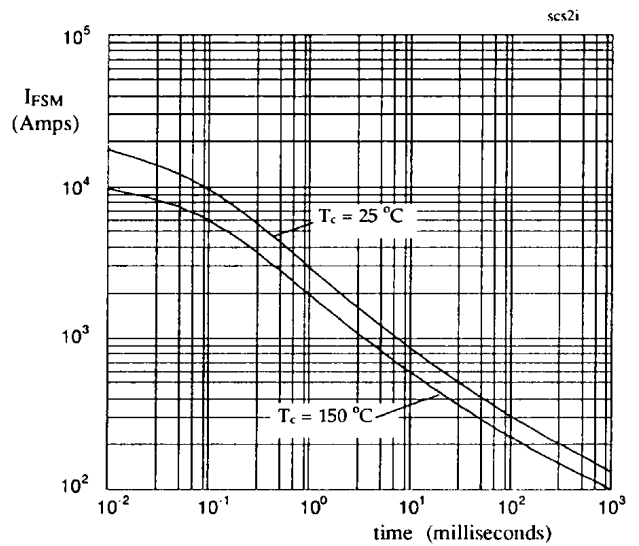


Figure 4. Maximum non-repetitive surge current against pulse width for 25°C and 150°C .