



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 8, 1998

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

HIGH DENSITY, HIGH VOLTAGE, STANDARD RECOVERY RECTIFIER ASSEMBLY

- High reverse voltages
- Low reverse leakage current
- Low distributed and ground capacitance
- Corona free design
- Air or oil environments

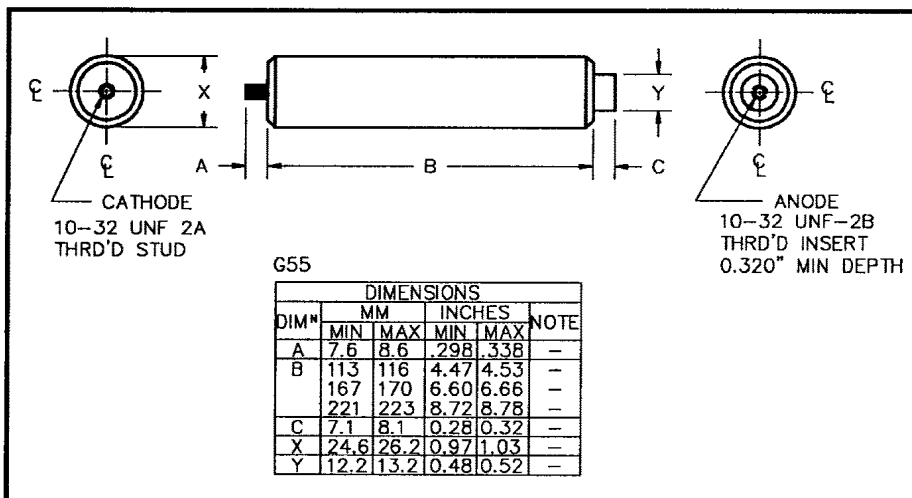
QUICK REFERENCE DATA

- $V_R = 100 - 200kV$
- $I_F = 100mA$
- $t_{rr} = 2.5\mu S$
- $I_R = 1.0\mu A$

ABSOLUTE MAXIMUM RATINGS

	Symbol	SCKV100K3	SCKV150K3	SCKV200K3	Unit
Working reverse voltage	V_{RWM}	100	150	200	kV
Surge reverse voltage	V_{RSM}	110	165	220	kV
Average forward current in air @ 25°C in oil @ 55°C in forced air 600 CFM	$I_{F(AV)}$	← 100 →	← 300 →	← 200 →	mA mA mA
Non-repetitive surge current $t_p = 8.3mS, @ 25°C$	I_{FSM}	← 25 →			A
Storage temperature range	T_{STG}	← -55 to +150 →			°C
Operating temperature range	T_{OP}	← -55 to +150 →			°C
Body length Max.	dim B	4.53	6.66	8.78	inches

MECHANICAL



January 8, 1998

ELECTRICAL CHARACTERISTICS

	Symbol	SCKV100K3	SCKV150K3	SCKV200K3	Unit
Max. forward voltage drop @ $I_F = 100\text{mA}$, $T_j = 25^\circ\text{C}$	V_F	120	190	250	V
Max. reverse leakage current @ V_{RWM} , $T_j = 25^\circ\text{C}$	I_R	←	1.0	→	μA
@ V_{RWM} , $T_j = 100^\circ\text{C}$	I_R	←	20	→	μA
Max. reverse recovery time 50mA I_F to 100mA I_R . Recovers to 25mA I_{RR} .	t_{rr}	←	2.5	→	μS
Max. fusing current $t_p = 8.3\text{ms}$	I^2t	←	2.6	→	A^2S

1. Measured on discrete devices prior to assembly

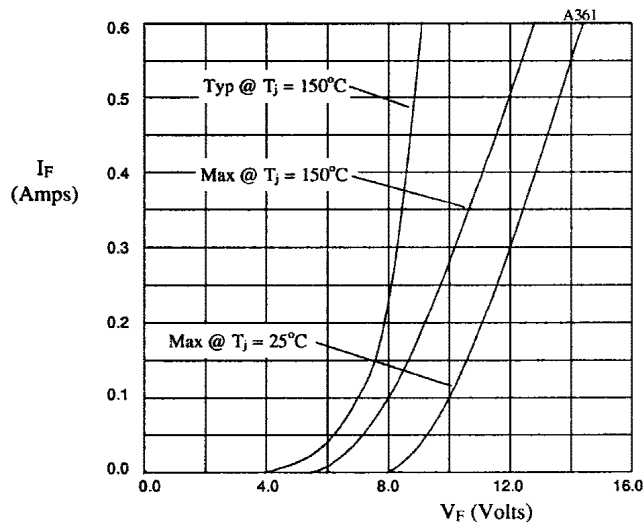


Fig 1. Forward voltage drop as a function of forward current for use with multiplication table.

Multiplication tables for fig 1.

SCKV100K3	X-axis x12
SCKV150K3	X-axis x19
SCKV200K3	X-axis x25

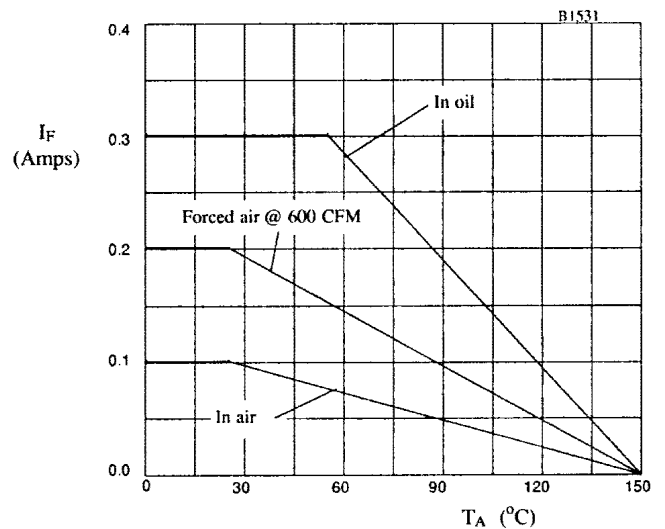


Fig 2. Maximum average forward current against ambient temperature.