



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 DENSITY, HIGH VOLTAGE, STANDARD RECOVERY DOUBLER AND CENTER TAPS

- Low reverse leakage currents
- Corona free design
- Easy aluminum base mount
- Low forward voltage drop
- Up to 10kV reverse voltage

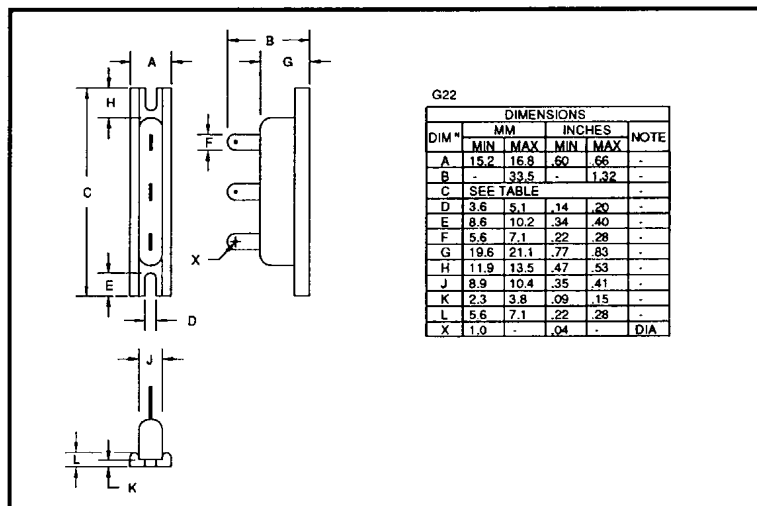
QUICK REFERENCE DATA

- $V_R = 5kV \text{ \& } 10kV$
- $I_F = 5.0A$
- $t_{rr} = 2.0\mu S$
- $I_R = 1.0\mu A$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current		1 Cycle Surge Current $t_p = 8.3mS$ @ 25°C	Operating and storage temp. ranges. $T_{OP} \text{ \& } T_{STG}$	Case Length dim C
		air 25 °C	oil 55 °C			
	Volts	Amps	Amps	Amps	°C	inches
SDHD5KS SDHD10KS	5000 10000	2.5 2.5	2.5 2.5	150 150	-55 to +150	4.72 6.09
SDHN5KS SDHN10KS	5000 10000	5.0 5.0	5.0 5.0	150 150	-55 to +150	4.72 6.09
SDHP5KS SDHP10KS	5000 10000	5.0 5.0	5.0 5.0	150 150	-55 to +150	4.72 6.09

MECHANICAL



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CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ V_{RWM}		Maximum Forward Voltage $V_F @ 3.0A$ @ 25°C	Maximum Reverse Recovery Time ¹ @ 25°C
	@ 25°C	@ 100°C		
	µA	µA	Volts	µS
SDHD5KS	1.0	25	6.0	↑ 2.0 ↓
SDHD10KS	1.0	25	12.0	
SDHN5KS	1.0	25	6.0	
SDHN10KS	1.0	25	12.0	
SDHP5KS	1.0	25	6.0	
SDHP10KS	1.0	25	12.0	

¹ Measured on discrete devices prior to assembly

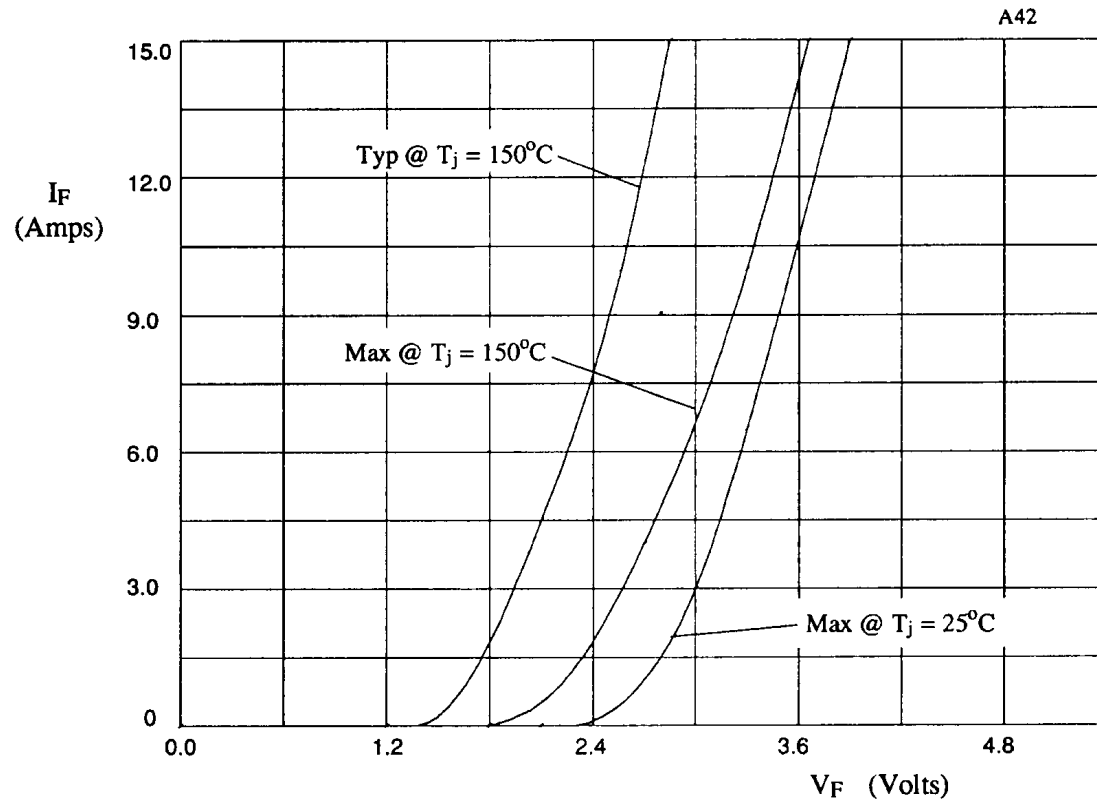


Figure 1. Forward voltage drop per leg as a function of forward current for SDH*5KS.
For SDH*10KS multiply X-axis by 2.