



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 CURRENT, HIGH DENSITY, STANDARD RECOVERY RECTIFIER ASSEMBLY

QUICK REFERENCE DATA

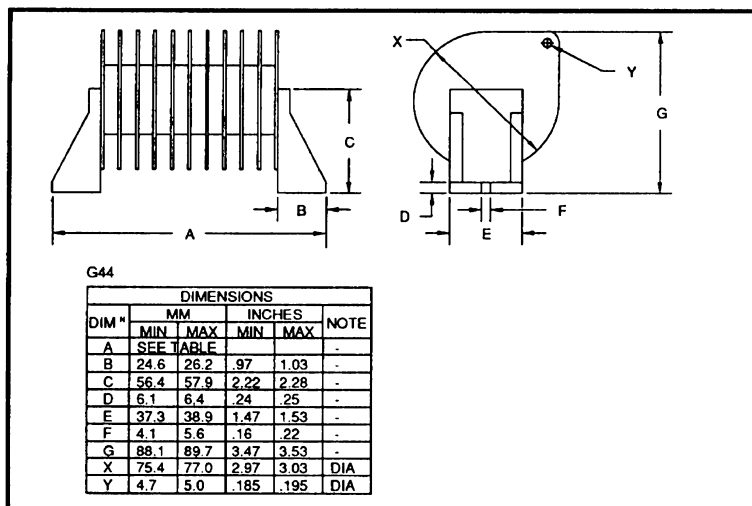
- 5.5A forward current and 30kV reverse voltage
- Air or oil enviroment
- High reverse surge current
- High thermal shock resistance
- Integral fins for easy cooling

- $V_R = 6kV - 30kV$
- $I_F = 5.50A$
- $I_R = 1.0\mu A$
- $I_{FSM} = 150A$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$		1 Cycle Surge Current $t_p = 8.3mS$ I_{FSM}		Repetitive Surge Current I_{FRM}	I^2t $t_p = 8.3mS$	Body length
		air 55°C	air 100°C	@ 25 °C	@ 100 °C	@ 25 °C	@ 25 °C	dim A
	Volts	Amps	Amps	Amps	Amps	Amps	A ² S	inches
SCPHN6	6000	↑	↑	↑	↑	↑	↑	4.21
SCPHN10	10000	↑	↑	↑	↑	↑	↑	5.53
SCPHN16	16000	5.5	3.0	150	80	90	93.4	7.51
SCPHN20	20000	↓	↓	↓	↓	↓	↓	8.83
SCPHN26	26000	↓	↓	↓	↓	↓	↓	10.81
SCPHN30	30000	↓	↓	↓	↓	↓	↓	12.13

MECHANICAL



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CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM}		Maximum Forward Voltage V_F @ 3.0A. @ 25°C	Maximum Reverse Recovery Time ¹ t_{rr} @ 25°C
	@ 25 °C	@ 100 °C		
	μA	μA	Volts	μS
SCPHN6	1.0	20	6.0	2.0
SCPHN10			10.0	
SCPHN16			16.0	
SCPHN20			20.0	
SCPHN26			26.0	
SCPHN30			30.0	

¹ Measured on discrete devices prior to assembly

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

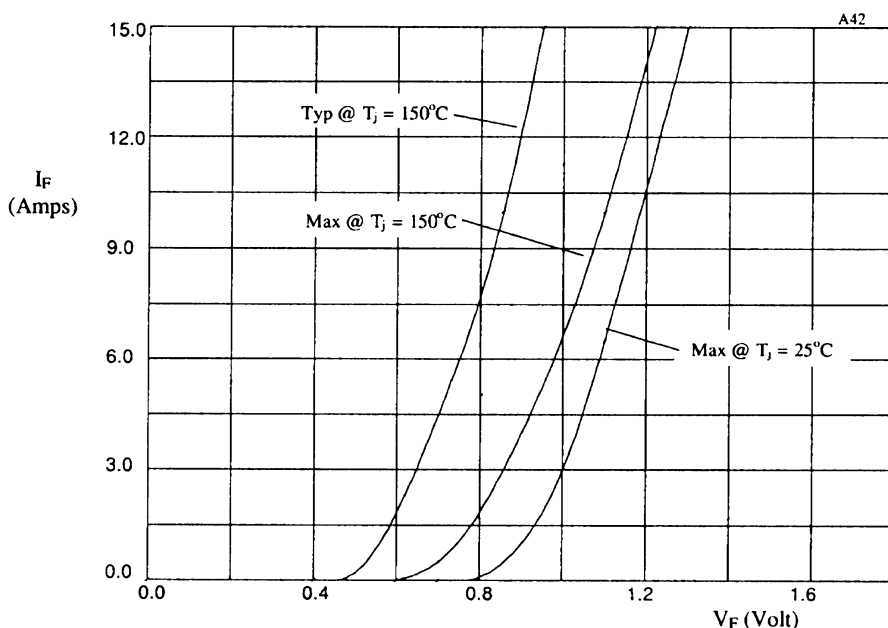


Figure 1. Forward voltage drop as a function of forward current for use with table 1.

TABLE 1

DEVICE	X-axis
SCPHN6	x6
SCPHN10	x10
SCPHN16	x16
SCPHN20	x20
SCPHN26	x26
SCPHN30	x30