

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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## STANDARD RECOVERY, HIGH CURRENT CENTERTAP AND DOUBLER RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- High forward surge rating

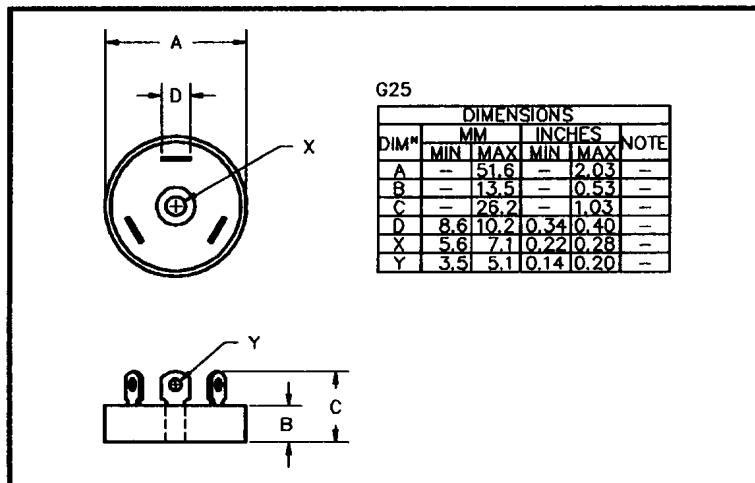
## QUICK REFERENCE DATA

- $V_R = 50V - 1000V$
- $I_F = 45A$
- $I_R = 3.0\mu A$
- $V_F = 1.0V$

## ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current (@ case temperature)			1 Cycle Surge Current $t_p = 8.3mS$		Repetitive Surge Current
		@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C	@ 25°C
		Volts	Amps	Amps	Amps	Amps	Amps
SCDAR05	50	↑	↑	↑	↑	↑	
SCDAR1	100	↑	↑	↑	↑	↑	
SCDAR2	200	↑	↑	↑	↑	↑	
SCDAR4	400	22.5	17.5	10.0	375	300	
SCDAR6	600	↓	↓	↓	↓	↓	
SCDAR8	800	↓	↓	↓	↓	↓	
SCDAR10	1000	↓	↓	↓	↓	↓	
SCNAR05    SCPAR05	50	↑	↑	↑	↑	↑	
SCNAR1    SCPAR1	100	↑	↑	↑	↑	↑	
SCNAR2    SCPAR2	200	↑	↑	↑	↑	↑	
SCNAR4    SCPAR4	400	45.0	35.0	20.0	375	300	
SCNAR6    SCPAR6	600	↓	↓	↓	↓	↓	
SCNAR8    SCPAR8	800	↓	↓	↓	↓	↓	
SCNAR10    SCPAR10	1000	↓	↓	↓	↓	↓	

## MECHANICAL



Maximum thermal impedance  
 $R_{\theta JC} = 1.5^{\circ}C/W$

Approximate mass = 75g

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### ELECTRICAL CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ $V_{RWM}$		Maximum Forward Voltage $V_F$ @ 9.0A @ 25°C	Maximum Reverse Recovery Time <sup>1</sup>
	@ 25 °C	@ 100 °C		
	μA	μA	Volts	μS
SCDAR05 SCDAR1 SCDAR2 SCDAR4 SCDAR6 SCDAR8 SCDAR10	3.0	60	1.0	2.0
SCNAR05 SCPAR05 SCNAR1 SCPAR1 SCNAR2 SCPAR2 SCNAR4 SCPAR4 SCNAR6 SCPAR6 SCNAR8 SCPAR8 SCNAR10 SCPAR10	3.0	60	1.0	

<sup>1</sup> Measured on discrete devices prior to assembly

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

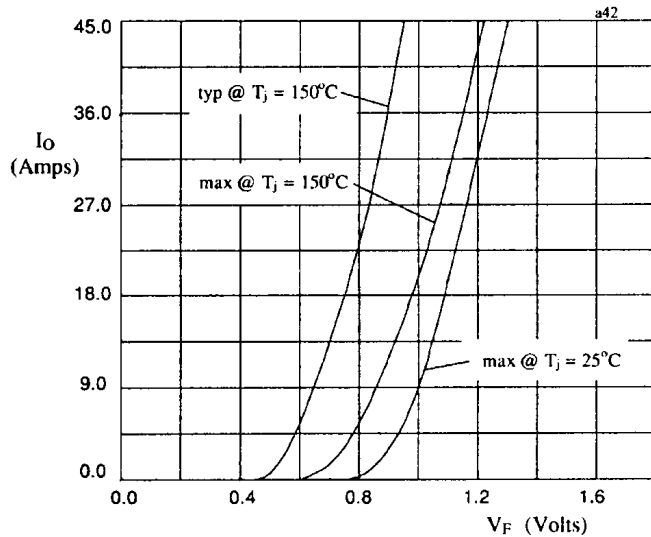


Fig 1. Forward voltage drop against current (per leg)

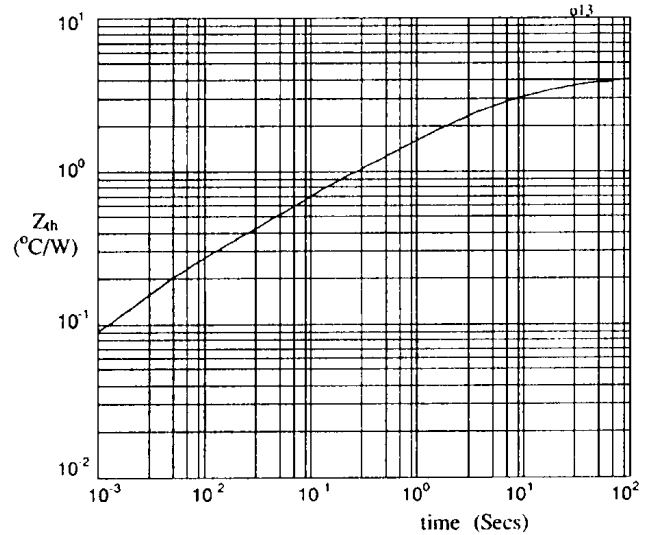


Fig 2. Transient thermal impedance characteristic per leg