

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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SUPERFAST RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

SCAS05FF SCAS10FF SCAS15FF

January 16, 1998

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SUPERFAST RECOVERY, HIGH CURRENT 1-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Very fast reverse recovery time
- · Low thermal impedance
- High forward and surge current ratings

QUICK REFERENCE DATA

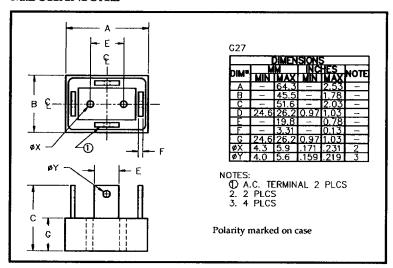
- $V_R = 50V 150V$
- $I_F = 70A$
- $V_F = 0.97V$
- $t_{rr} = 30 nS$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectifie			ed Current I _{F(AV)} (@ ambient temperature)			1 Cycle Surge Current I _{FSM} t _p = 8.3mS		Repetitive Surge Current I _{FRM}
		@ 55°C	@ 100°C	@ 125℃	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C	@ 25 °C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCAS05FF SCAS10FF SCAS15FF	50 100 150	70	48	35	18	12.5	8.0	900	750	125

 $R_{\theta JC} = 0.4^{o}C/W$

MECHANICAL

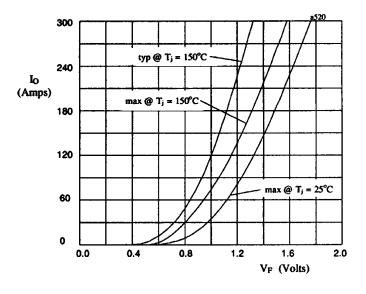


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ELECTRICAL CHARACTERISTICS

Device Type		n Reverse Current V _{RWM} @ 100°C	Maximum Forward Voltage V _F @ 30A/leg	Reverse Recovery Time ¹ t _{rr} @ 25°C	Maximum operating & storage temp. range.	
	μА	mA	Volts	nS	°C	
SCAS05FF SCAS10FF SCAS15FF	120	6.0	0.97	30	-55 to +150	

¹ Measured on discrete devices prior to assembly



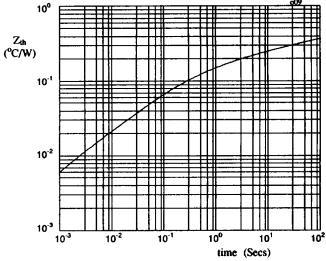


Fig 1. Forward voltage drop against output current per leg.

Fig 2. Transient thermal impedance characteristic per leg