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# SEMTECH

## SUPERFAST RECOVERY DOUBLER AND CENTER TAPS

SCDA05FF - SCDA15FF  
 SCNA05FF - SCNA15FF  
 SCPA05FF - SCPA15FF

January 9, 1998

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

### SUPERFAST RECOVERY, MEDIUM CURRENT CENTER TAP AND DOUBLER RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Very low reverse recovery time

### QUICK REFERENCE DATA

- $V_R = 50V - 150V$
- $I_F = 15A$
- $I_R = 10\mu A$
- $t_{rr} = 30nS$

### ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current						1 Cycle Surge Current $t_p = 8.3mS$		Repetitive Surge Current
		(@ case temperature)			(@ ambient temperature)			25°C	100°C	
		55°C	100°C	125°C	25°C	55°C	100°C			25°C
Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	
SCDA05FF SCDA10FF SCDA15FF	50 100 150	7.5	5.0	2.5	2.25	1.75	1.0	175	120	24
SCNA05FF SCNA10FF SCNA15FF	50 100 150	15	10	5	4.5	3.5	2.0	175	120	24
SCPA05FF SCPA10FF SCPA15FF	50 100 150	15	10	5	4.5	3.5	2.0	175	120	24

### MECHANICAL

G24

DIM#	MM		INCHES		NOTE
	MIN	MAX	MIN	MAX	
A	56.4	57.9	2.22	2.28	--
B	--	25.4	--	1.00	--
C	2.5	3.8	.10	.15	--
D	8.1	9.6	.32	.38	--
E	46.7	48.3	1.84	1.90	--
F	36.8	37.8	1.45	1.49	--
X	3.8	4.3	1.149	1.171	--

NOTES:  
 1. TERMINAL LAYOUT SHOWN FOR DOUBLER. CATHODE TERMINALS PERPENDICULAR TO UNIT AXIS  
 2. TERMINALS SUITABLE FOR .25" 'FASTON' CONNECTORS OR SOLDERING.

Maximum thermal impedance  
 $R_{\theta JC} = 4^{\circ}C/W$

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**ELECTRICAL CHARACTERISTICS** (ratings apply per leg)

Device Type	Reverse Current @ VRWM		Maximum Forward Voltage VF @ 5.0A @ 25°C	Maximum Reverse Recovery Time
	@ 25 °C	@ 100 °C		
	µA	µA	Volts	nS
SCDA05FF SCDA10FF SCDA15FF	10	500	0.97	30
SCNA05FF SCNA10FF SCNA15FF	10	500	0.97	
SCPA05FF SCPA10FF SCPA15FF	10	500	0.97	

<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

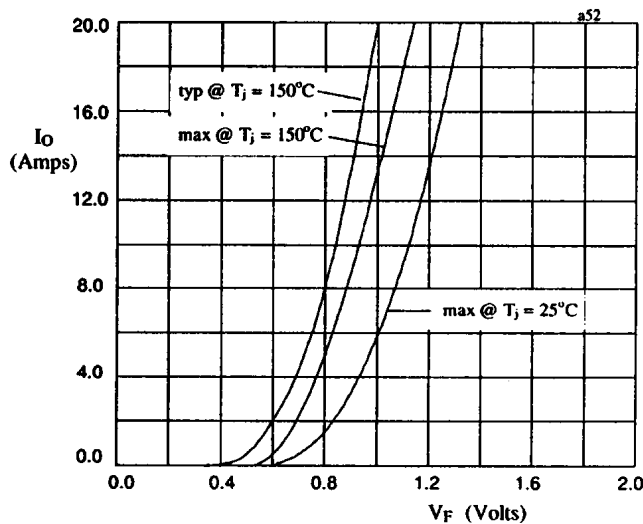


Fig 1. Forward voltage drop against current (per leg)

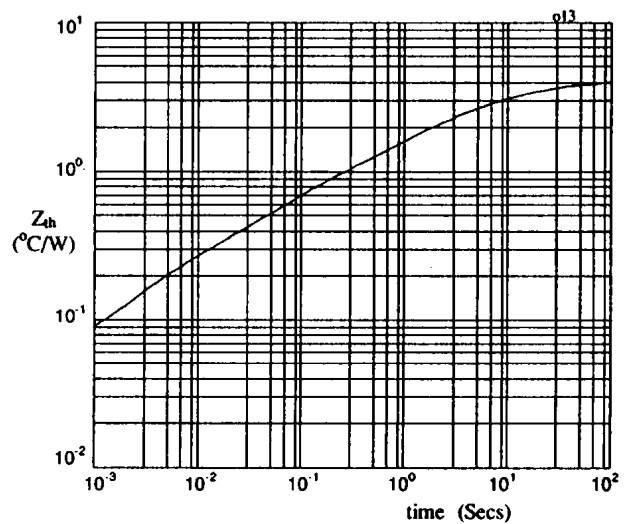


Fig 2. Transient thermal impedance characteristic per leg