# DOUBLER AND CENTER **TAPS**

SUPERFAST RECOVERY SCDAR05FF - SCDAR15FF **SCNAR05FF - SCNAR15FF** SCPAR05FF - SCPAR15FF

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

## SUPERFAST RECOVERY, HIGH CURRENT CENTER TAP **AND DOUBLER RECTIFIER ASSEMBLIES**

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

## **QUICK REFERENCE DATA**

 $V_R = 50V - 150V$ 

=45A

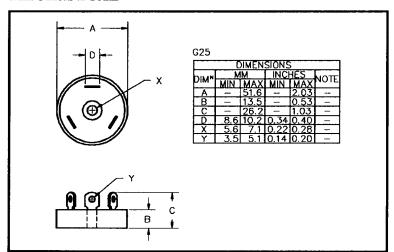
 $t_{rr} = 30nS$ 

 $V_F = 0.97V$ 

#### **ABSOLUTE MAXIMUM RATINGS**

Device Type	Working Reverse Voltage VRWM	Average Rectified Current (@ case temperature)			1 Cycle Surge Current t <sub>p</sub> = 8.3mS		Repetitive Surge Current
		<b>@</b> 25°C	<b>@</b> 55°C	<b>@</b> 100°C	<b>@</b> 25°C	<b>@</b> 100℃	@ 25°C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps
SCDAR05FF SCDAR10FF SCDAR15FF	50 100 150	22.5	17.5	10	450	375	70
SCNAR05FF SCNAR10FF SCNAR15FF	50 100 150	45	35	20	450	375	70
SCPAR05FF SCPAR10FF SCPAR15FF	50 100 150	<b>4</b> 5	35	20	<b>4</b> 50	375	70

#### **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		Current RWM	Maximum Forward Voltage	Maximum Reverse Recovery Time	
Туре	<b>@</b> 25 ℃	@ 100 °C	V <sub>F</sub> @ 15.0A @ 25°C		
	μΑ	mA	Volts	nS	
SCDAR05FF SCDAR10FF SCDAR15FF	30	1.5	0.97	<b>†</b>	
SCNAR05FF SCNAR10FF SCNAR15FF	30	1.5	0.97	30	
SCPAR05FF SCPAR10FF SCPAR15FF	30	1.5	0.97		

<sup>&</sup>lt;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

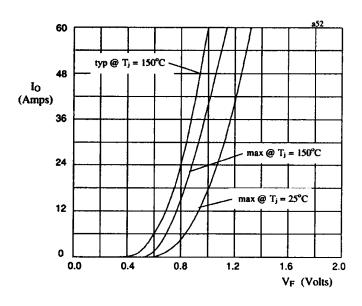


Fig 1. Forward voltage drop against current (per leg)

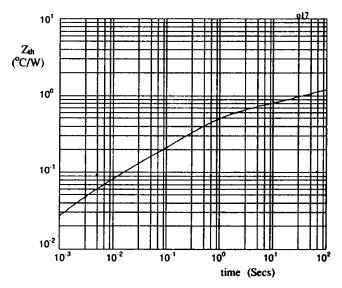


Fig 2. Transient thermal impedance characteristic per leg