SUPERFAST RECOVERY DOUBLER AND CENTER TAPS

SCDA05FF - SCDA15FF SCNA05FF - SCNA15FF SCPA05FF - SCPA15FF

January 9, 1998

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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

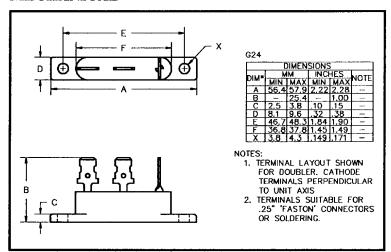
QUICK REFERENCE DATA

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

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage VRWM	Average Rectified Current						1 Cycle Surge Current		
		(@ case temperature)			(@ ambient temperature)			t _p = 8.3mS		Surge Current
		55°C	100°C	125°C	25°C	55°C	100°C	25°C	100°C	25°C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCDA05FF SCDA10FF SCDA15FF	50 100 150	<i>7</i> .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



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

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ELECTRICAL CHARACTERISTICS (ratings apply per leg)

Device	1	Current RWM	Maximum Forward Voltage	Maximum Reverse Recovery Time	
Туре	@ 25 ℃	@ 100 °C	V _F @ 5.0A @ 25°C		
	μA	μA	Volts	nS	
SCDA05FF SCDA10FF SCDA15FF	10	500	0.97		
SCNA05FF SCNA10FF SCNA15FF	10	500	0.97	30	
SCPA05FF SCPA10FF SCPA15FF	10	500	0.97		

¹ Measured on discrete devices prior to assembly

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

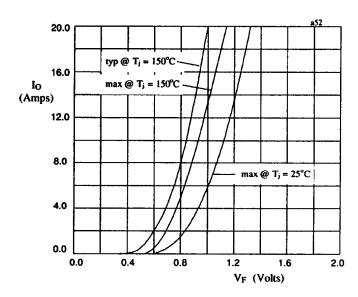


Fig 1. Forward voltage drop against current (per leg)

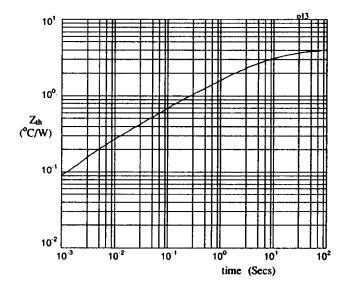


Fig 2. Transient thermal impedance characteristic per leg