

SEMTECH**SUPERFAST RECOVERY
DOUBLER AND CENTER
TAPS****SCDA05FF - SCDA15FF
SCNA05FF - SCNA15FF
SCPA05FF - SCPA15FF**

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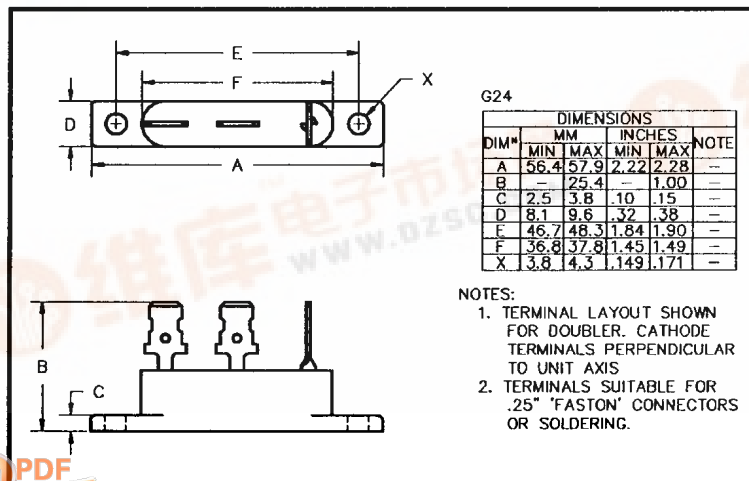
**SUPERFAST RECOVERY, MEDIUM CURRENT
CENTERTAP AND DOUBLER RECTIFIER ASSEMBLIES****QUICK REFERENCE
DATA**

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

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

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	50									
SCDA10FF	100	7.5	5.0	2.5	2.25	1.75	1.0	175	120	24
SCDA15FF	150									
SCNA05FF	50									
SCNA10FF	100	15	10	5	4.5	3.5	2.0	175	120	24
SCNA15FF	150									
SCPA05FF	50									
SCPA10FF	100	15	10	5	4.5	3.5	2.0	175	120	24
SCPA15FF	150									

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

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ELECTRICAL CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ V_{RWM}		Maximum Forward Voltage V_F @ 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	

¹ Measured on discrete devices prior to assembly

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

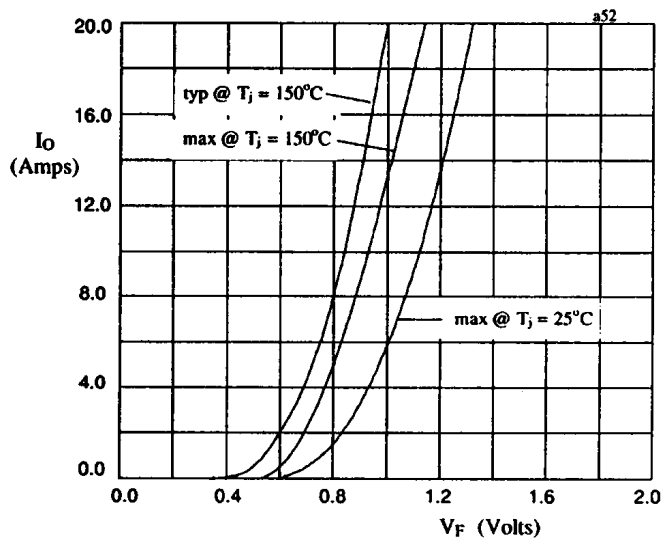


Fig 1. Forward voltage drop against current (per leg)

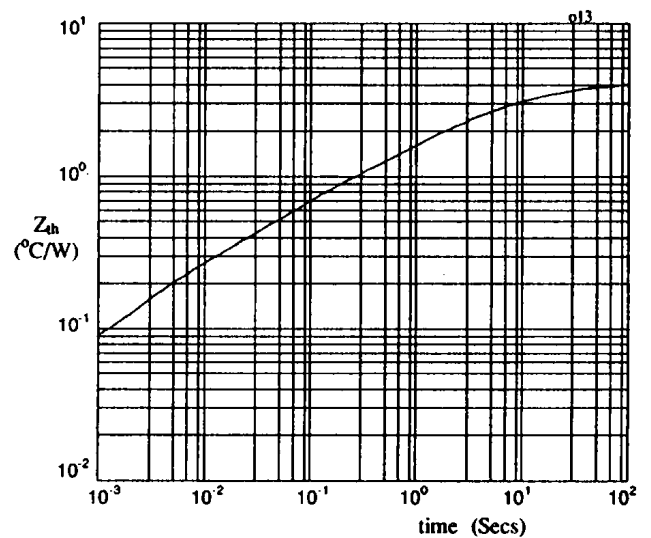


Fig 2. Transient thermal impedance characteristic per leg