

January 9, 1998

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STANDARD RECOVERY, MEDIUM CURRENT CENTER TAP AND DOUBLER RECTIFIER ASSEMBLIES

QUICK REFERENCE DATA

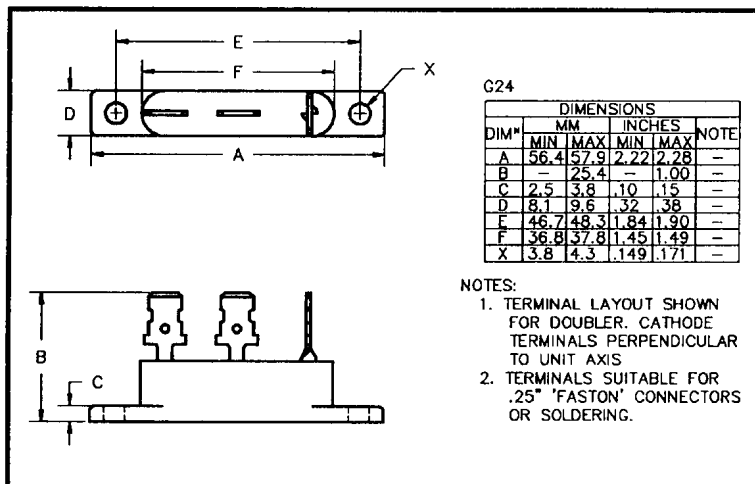
- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Universal 3-way terminals

- $V_R = 50V - 600V$
- $I_F = 15A$
- $I_R = 1.0 \mu A$
- $V_F = 1.0V$

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	25°C
			55°C	100°C	125°C	25°C	55°C	100°C			
		Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCDA05		50	↑	↑	↑	↑	↑	↑	↑	↑	
SCDA1		100									
SCDA2		200	7.5	5.0	2.5	2.5	2.0	1.25	150	100	
SCDA4		400	↓	↓	↓	↓	↓	↓	↓	↓	
SCDA6		600									
SCNA05 SCPA05		50	↑	↑	↑	↑	↑	↑	↑	↑	
SCNA1 SCPA1		100									
SCNA2 SCPA2		200	15.0	10.0	5.0	5.0	4.0	2.5	150	100	
SCNA4 SCPA4		400	↓	↓	↓	↓	↓	↓	↓	↓	
SCNA6 SCPA6		600									

MECHANICAL



Maximum 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 @ 3.0A @ 25°C	Maximum Reverse Recovery Time ¹
	@ 25 °C	@ 100 °C		
	μA	μA	Volts	μS
SCDA05 SCDA1 SCDA2 SCDA4 SCDA6	1.0 ↓	20 ↓	1.0 ↓	2.0 ↑
SCNA05 SCNA1 SCNA2 SCNA4 SCNA6 SCNA6	1.0 ↓	20 ↓	1.0 ↓	2.0 ↑

¹ Measured on discrete devices prior to assembly

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

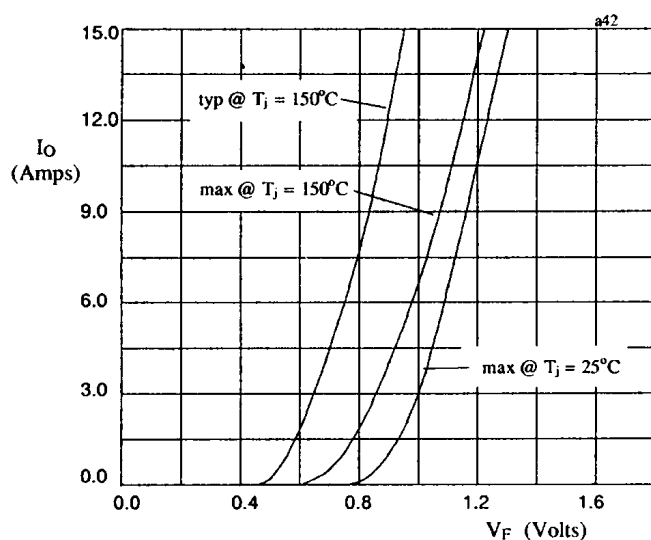


Fig 1. Forward voltage drop against current (per leg)

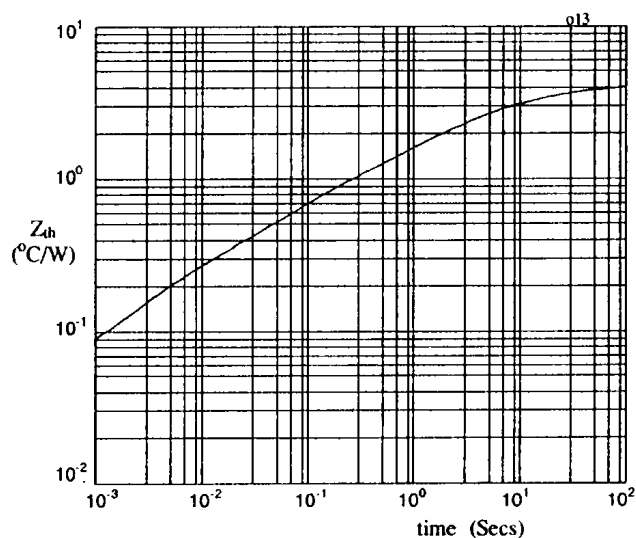


Fig 2. Transient thermal impedance characteristic per leg