

*New Jersey Semi-Conductor Products, Inc.*

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**STANDARD RECOVERY, MEDIUM CURRENT CENTER  
 TAP AND DOUBLER RECTIFIER ASSEMBLIES**

- 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	Amps	Amps	Amps
	Volts	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	25
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	25
SCNA4 SCPA4	400									
SCNA6 SCPA6	600	↓	↓	↓	↓	↓	↓	↓	↓	

**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	38.8	37.8	1.45	1.49	-
X	3.8	4.3	.149	.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  $R_{\theta JC} = 4^{\circ}C/W$

**Quality Semi-Conductors**

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

Device Type	Reverse Current @ $V_{RWM}$		Maximum Forward Voltage $V_F @ 3.0A @ 25^\circ C$	Maximum Reverse Recovery Time
	@ 25 °C	@ 100 °C		
	$\mu A$	$\mu A$	Volts	$\mu S$
SCDA05	↑	↑	↑	2.0
SCDA1	1.0	20	1.0	
SCDA2	↓	↓	↓	
SCDA4	↓	↓	↓	
SCDA6	↓	↓	↓	
SCNA05 SCPA05	↑	↑	↑	
SCNA1 SCPA1	1.0	20	1.0	
SCNA2 SCPA2	↓	↓	↓	
SCNA4 SCPA4	↓	↓	↓	
SCNA6 SCPA6	↓	↓	↓	