January 9, 1998

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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

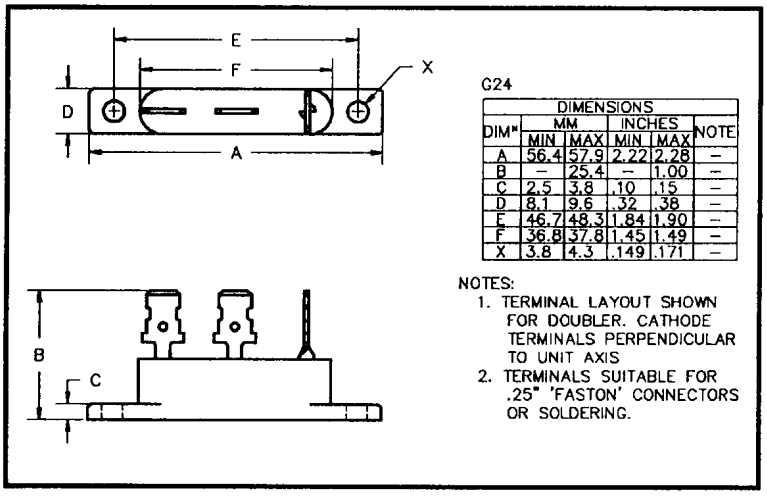
QUICK REFERENCE DATA

- V_R = 50V - 600V
- I_F = 15A
- I_R = 1.0 µA
- V_F = 1.0V

ABSOLUTE MAXIMUM RATINGS

Device Type		Working Reverse Voltage V_{RWM}	Average Rectified Current (@ case temperature)			Average Rectified Current (@ ambient temperature)			1 Cycle Surge Current t_p = 8.3mS		Repetitive 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
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*	DIMENSIONS MM MIN	MM MAX	INCHES MIN	INCHES MAX	NOTE
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	36.8	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°C/W

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ELECTRICAL CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ V_{RWM} @ 25 °C	Reverse Current @ V_{RWM} @ 100 °C	Maximum Forward Voltage V_F @ 3.0A @ 25°C	Maximum Reverse Recovery Time [1]
	µA	µA	Volts	µS
SCDA05 SCDA1 SCDA2 SCDA4 SCDA6	1.0	20	1.0	2.0
SCNA05 SCPA05 SCNA1 SCPA1 SCNA2 SCPA2 SCNA4 SCPA4 SCNA6 SCPA6	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

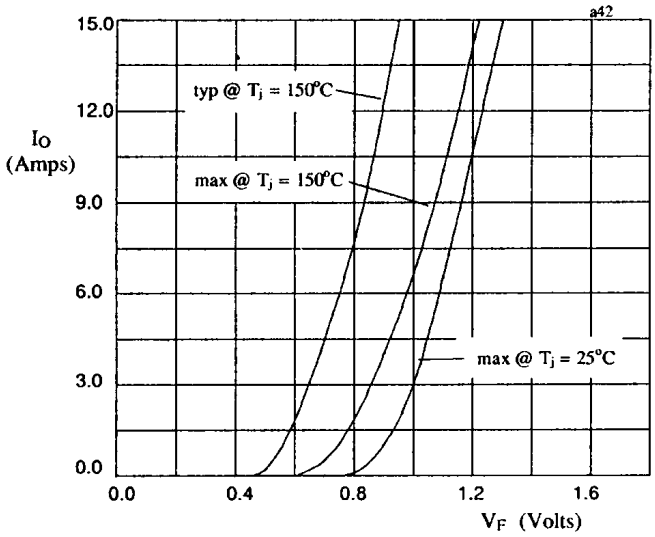


Fig 1. Forward voltage drop against current (per leg)

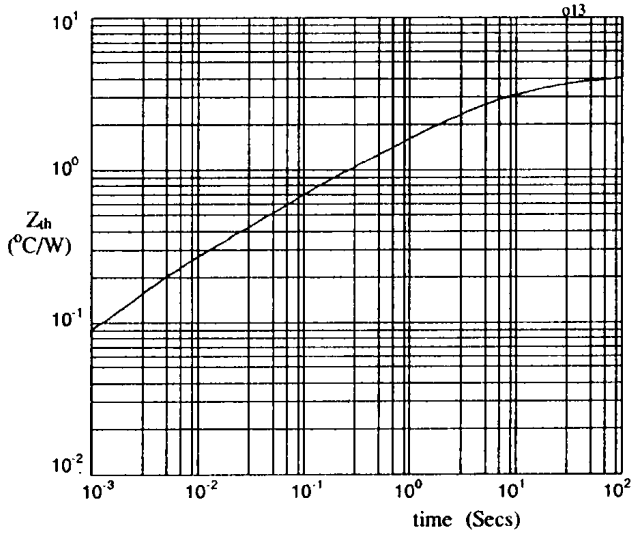


Fig 2. Transient thermal impedance characteristic per leg

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