

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

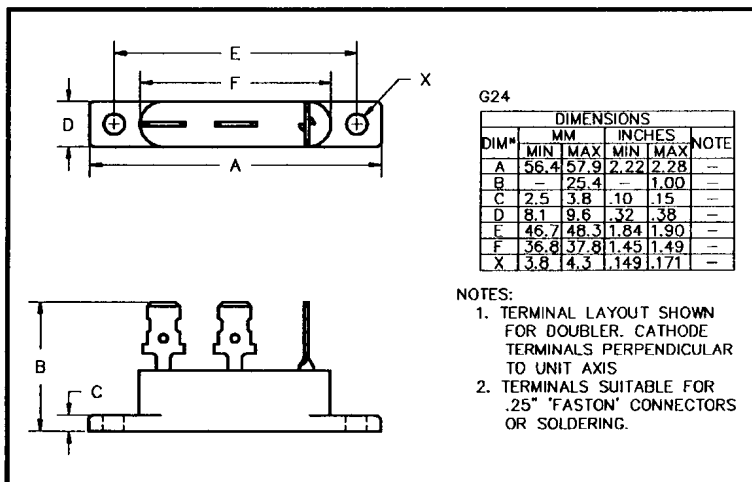
QUICK REFERENCE DATA

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

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectified Current						1 Cycle Surge Current t _p = 8.3mS		Repetitive Surge Current
		(@ case temperature)			(@ ambient temperature)					
		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	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									

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 @ 5.0A @ 25°C	Maximum Reverse Recovery Time ¹
	@ 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

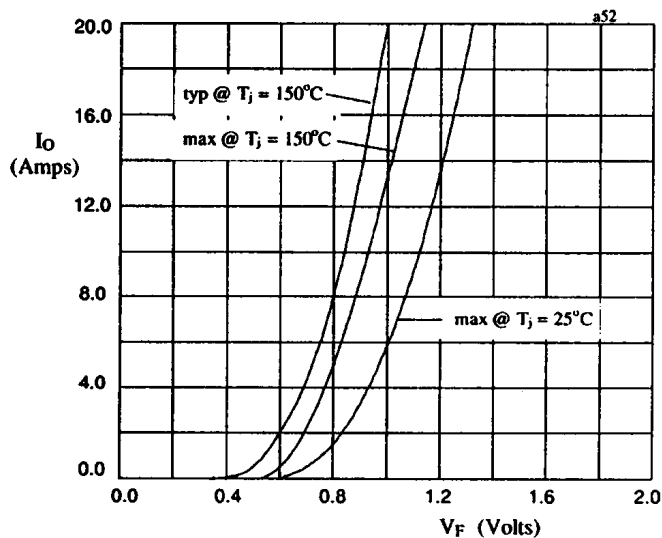


Fig 1. Forward voltage drop against current (per leg)

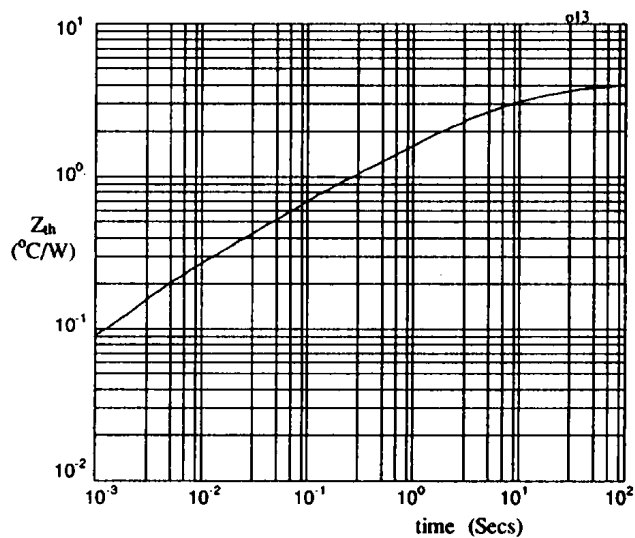


Fig 2. Transient thermal impedance characteristic per leg

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