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## SUPERFAST RECOVERY, HIGH CURRENT CENTER TAP AND DOUBLER RECTIFIER ASSEMBLIES

## QUICK REFERENCE DATA

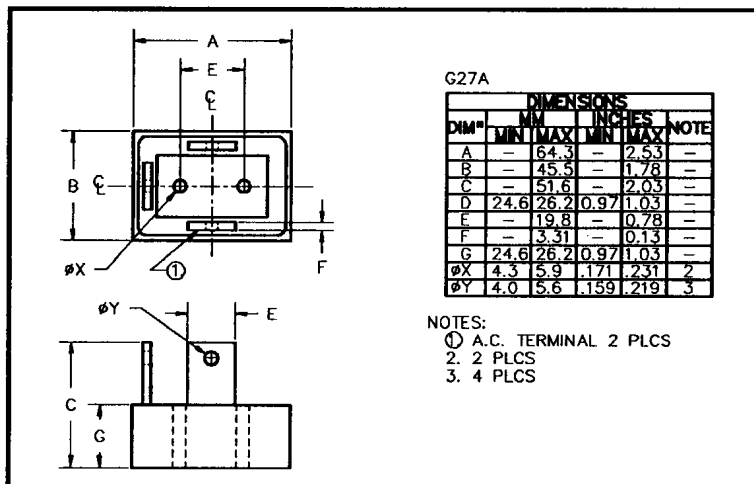
- Low forward voltage drop
- Low reverse leakage current
- Very fast reverse recovery time
- Low thermal impedance
- High forward and surge currents

- $V_R = 50V - 150V$
- $I_F = 85A$
- $t_{rr} = 30nS$
- $V_F = 0.97V$

## ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current (@ case temperature)			1 Cycle Surge Current $t_p = 8.3mS$		Repetitive Surge Current
		@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C	@ 25°C
		Volts	Amps	Amps	Amps	Amps	Amps
SCDAS05FF	50						
SCDAS10FF	100	42.5	35	22.5	900	700	135
SCDAS15FF	150						
SCNAS05FF	50						
SCNAS10FF	100	85	70	45	900	700	135
SCNAS15FF	150						
SCPAS05FF	50						
SCPAS10FF	100	85	70	45	900	700	135
SCPAS15FF	150						

## MECHANICAL



Maximum thermal impedance  
 $R_{\theta JC} = 0.80^{\circ}C/W$

Approximate mass = 245g

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

Device Type	Reverse Current @ $V_{RWM}$		Maximum Forward Voltage $V_F @ 30A$ @ 25°C	Maximum Reverse Recovery Time
	@ 25 °C	@ 100 °C		
	$\mu A$	$\mu A$	Volts	nS
SCDAS05FF SCDAS10FF SCDAS15FF	60	3.0	0.97	$\updownarrow$ 30
SCNAS05FF SCNAS10FF SCNAS15FF	60	3.0	0.97	
SCPAS05FF SCPAS10FF SCPAS15FF	60	3.0	0.97	

<sup>1</sup> Measured on discrete devices prior to assembly

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

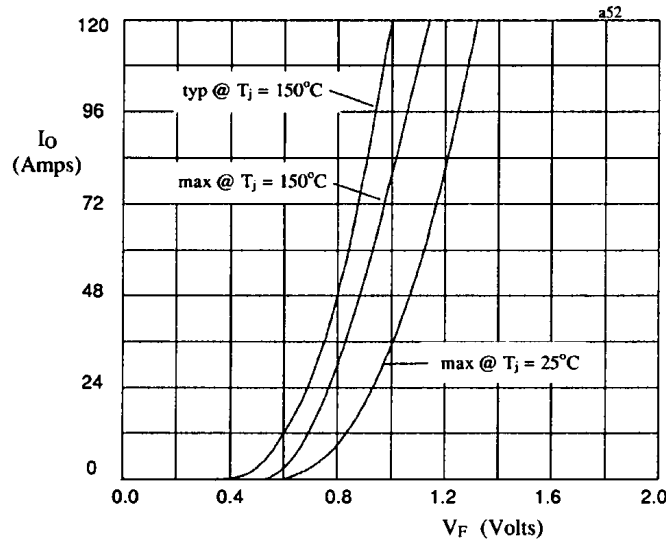


Fig 1. Forward voltage drop against current (per leg)

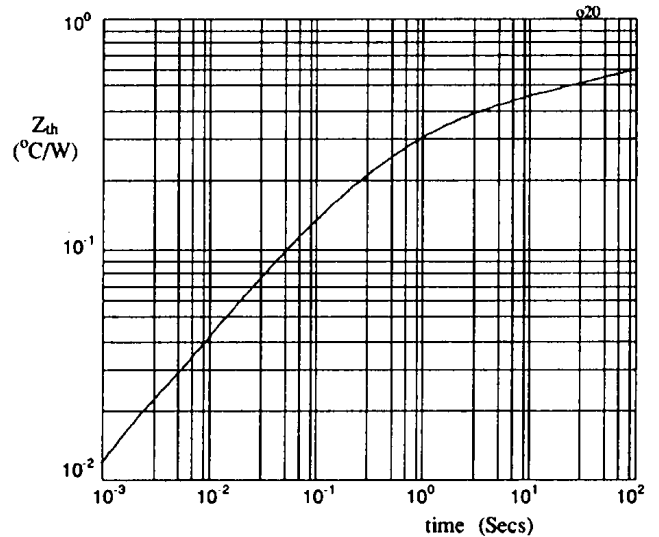


Fig 2. Transient thermal impedance characteristic per leg