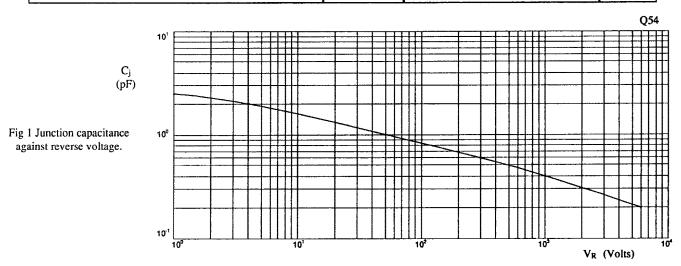
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CHARACTERISTICS (@ 25°C unless otherwise specified)

	Symbol	F40A	F50A	F60A	Unit
Average forward current max. (pcb mounted; T _A = 55°C) for sine wave for square wave (d = 0.5)	I _{F(av)} I _{F(av)}	£	- 0.12 - - 0.13 -		A A
Average forward current max. (unstirred oil at 55°C) for sine wave for square wave	I _{F(av)} I _{F(av)} I ² t	4	- 0.23 - - 0.25 -	-	A A A ² S
I^2 t for fusing (t = 8.3mS) max.	1 t	4	0.026		AS
Forward voltage drop max. @ $I_F = 50$ mA, $T_j = 25$ °C	$V_{\mathbf{F}}$	←	— 8.0 —	-	v
Reverse current max. @ V_{RWM} , $T_j = 25^{\circ}C$ @ V_{RWM} , $T_j = 100^{\circ}C$	I _R I _R	1	- 1.0 - 10		μΑ μΑ
Reverse recovery time max. 50mA I _F to 100mA I _R . Recover to 25mA I _{RR} .	t _{rr}	4	300		nS
Junction capacitance typ. @ $V_R = 5V$, $f = 1MHz$	Cj	4	— 2.0 —		ρF
Thermal resistance - junction to oil Stirred oil Unstirred oil	R _{θJO} R _{θJO}	i e	— 26 — — 40 —		°C/W
Thermal resistance - junction to amb. on 0.06" thick pcb. 1oz copper.	R _{θЈА}	4	— 95 —		°C/W



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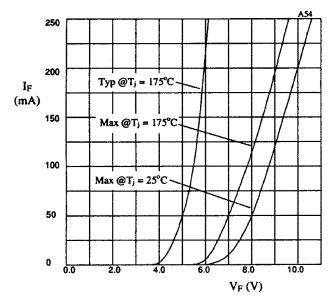


Fig 2. Forward voltage drop as a function of forward current.

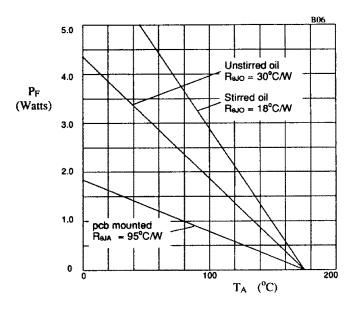


Fig 3. Power derating in air and oil.

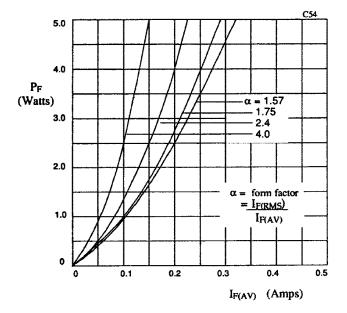


Fig 4. Forward power dissipation as a function of forward current, for sinusoidal operation.

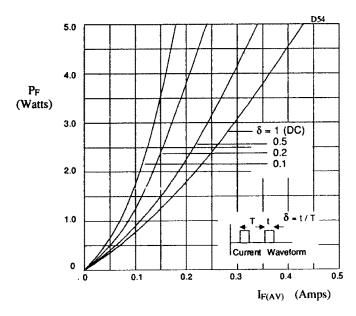


Fig 5. Forward power dissipation as a function of forward current, for square wave operation.