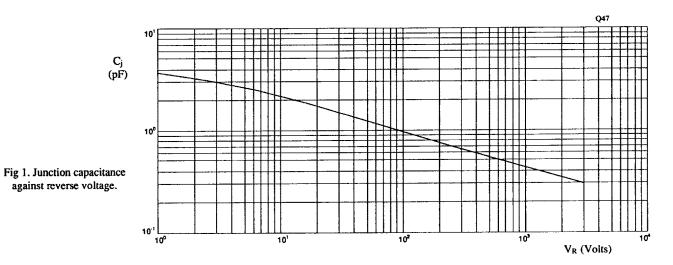
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## CHARACTERISTICS (@ 25°C unless otherwise specified)

	Symbol	F15 F20 F25 F30	Unit
Average forward current max. (pcb mounted; T <sub>A</sub> = 55°C) for sine wave for square wave (d = 0.5)	I <sub>F(AV)</sub> I <sub>F(AV)</sub>	← 0.16 → ← 0.20 →	A A
Average forward current max. (unstirred oil at $55^{\circ}$ C) for sine wave for square wave $I^{2}$ t for fusing (t = 8.3mS) max.	I <sub>F(AV)</sub> I <sub>F(AV)</sub> I <sup>2</sup> t	<ul> <li>← 0.33 ← → 0.35 ← → 0.10 ← →</li> </ul>	A A A <sup>2</sup> S
Forward voltage drop max. @ IF = 0.10A, T <sub>j</sub> = 25°C	$V_{F}$	← 5.00 →	v
Reverse current max. @ $V_{RWM}$ , $T_j = 25^{\circ}C$ @ $V_{RWM}$ , $T_j = 100^{\circ}C$	I <sub>R</sub> I <sub>R</sub>	← 0.25 ← 10 ← 10 ← 10 ← 10 ← 10 ← 10 ← 10 ← 1	μ <b>Α</b> μ <b>Α</b>
Reverse recovery time max. 50mA I <sub>F</sub> to 100mA I <sub>R</sub> . Recover to 25mA I <sub>RR</sub> .	t <sub>rr</sub>	← 250	nS
Junction capacitance typ. @ $V_R = 5V$ , $f = 1MHz$	Cj	← 2.5 →	ρF
Thermal resistance - junction to oil Stirred oil Unstirred oil	Rejo Rejo	<b>←</b> 30 <b>←</b> 48 <b>←</b>	°C/W
Thermal resistance - junction to amb. on 0.06" thick pcb. 1oz copper.	R <sub>0JA</sub>	← 120 ←	°C/W



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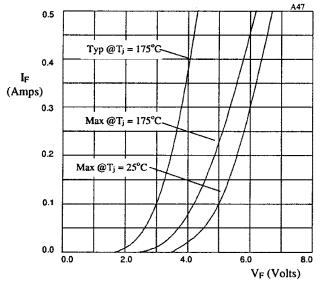


Fig 2. Forward voltage drop as a function of forward current.

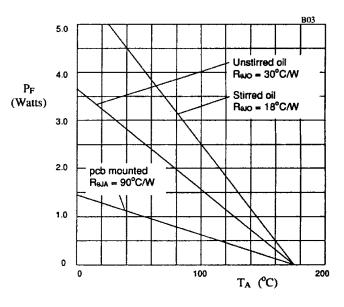


Fig 3. Power derating in air and oil.

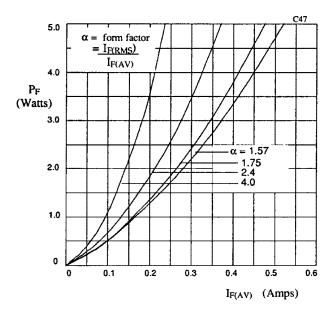


Fig 4. Forward power dissipation as a function of forward current, for sinusoidal operation.

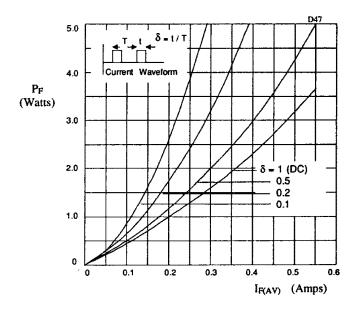


Fig 5. Forward power dissipation as a function of forward current, for square wave operation.