

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

	Symbol	1N5802	1N5804	1N5806	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>	-	1.3 1.4		A A
Average forward current max. $(T_L = 55^{\circ}C; L = 3/8")$ for sine wave for square wave $I^2t$ for fusing $(t = 8.3mS)$ max.	I <sub>F(AV)</sub> I <sub>F(AV)</sub> I <sup>2</sup> t		3.1 ————————————————————————————————————		A A A <sup>2</sup> S
Forward voltage drop max. @ $I_F = 1.0A$ , $T_j = 25^{\circ}C$	VF	-	0.875		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>	<del></del>	1.0		μΑ μΑ
Reverse recovery time max. 1.0A I <sub>F</sub> to 1.0A I <sub>R</sub> . Recovers to 0.1A I <sub>RR</sub> .	t <sub>rr</sub>	4	25		nS
Junction capacitance typ. @ $V_R = 5V$ , $f = 1MHz$	Cj	←	25		ρF

## THERMAL CHARACTERISTICS

	Symbol	1N5802	1N5804	1N5806	Unit
Thermal resistance - junction to lead Lead length = 0.75"  Thermal resistance - junction to amb. on 0.06" thick pcb. 1 oz. copper.	R <sub>OJL</sub> R <sub>OJA</sub>	•	36 100	<b></b>	°C/W °C/W

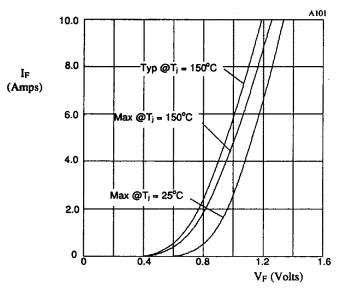


Fig 1. Forward voltage drop as a function of forward current.

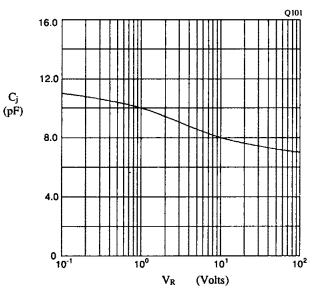


Fig 2. Typical junction capacitance as a function of reverse voltage.

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