

January 7, 1998

ELECTRICAL CHARACTERISTICS (@ 25°C unless otherwise specified)

	Symbol	1N6076 3FF05	1N6077 3FF10	1N6078 3FF15	Unit
Average forward current max. (pcb mounted; T _A = 55°C) for sine wave	I _{F(AV)}	← 1.30 →			A
for square wave (d = 0.5)	I _{F(AV)}	← 1.40 →			A
Average forward current max. T _L = 70°C; L = 0".	I _{F(AV)}	← 6.0 →			A
T _L = 55°C; L = 3/8"	I _{F(AV)}	← 3.0 →			A
for sine wave	I _{F(AV)}	← 3.1 →			A
for square wave	I _{F(AV)}	← 3.1 →			A
I ² t for fusing (t = 8.3mS) max.	I ² t	← 5.1 →			A ² S
Forward voltage drop max. @ I _F = 3.0A, T _j = 25°C	V _F	← 1.2 →			V
Reverse current max. @ V _{RWM} , T _j = 25°C	I _R	← 5.0 →			μA
@ V _{RWM} , T _j = 100°C	I _R	← 100 →			μA
Reverse recovery time 0.5A I _F to 1.0A I _R . Recovers to 0.25A I _{RR} .	t _{rr}	← 30 →			nS
Junction capacitance typ. @ V _R = 5V, f = 1MHz	C _j	← 60 →			pF

THERMAL CHARACTERISTICS

	Symbol	1N6076 3FF05	1N6077 3FF10	1N6078 3FF15	Unit
Thermal resistance - junction to lead Lead length = 0.0"	R _{θJL}	← 8.5 →			°C/W
Lead length = 0.375"	R _{θJL}	← 25 →			°C/W
Thermal resistance - junction to amb. on 0.06" thick pcb. 1 oz. copper.	R _{θJA}	← 90 →			°C/W