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AXIAL LEADED HERMETICALLY SEALED SUPERFAST RECTIFIER DIODE

- Very low reverse recovery time
- Hermetical sealed in Metoxilite fused metal oxide
- Low switching losses
- Soft, non-snap off, recovery characteristics
- Very low forward voltage drop

ABSOLUTE MAXIMUM RATINGS	(@ 25 [°] C unless otherwise specified)
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	Symbol	1N5802	1N5804	1N5806	Unit
Working reverse voltage	Vrwm	50	100	150	v
Repetitive reverse voltage	VRRM	50	100	150	v
Average forward current (@ 75°C, lead length = 0.375")	I _{F(AV)}		2.5		А
Repetitive surge current (@ 55°C in free air, lead length 0.375")	I _{FRM}	↓	14		А
Non-repetitive surge current ($t_p = 8.3mS$, @ V _R & T _{jmax})	I _{FSM}		35		А
Storage temperature range	T _{STG}	←	65 to +200 -		°C
Operating temperature range	T _{OP}	↓	– -65 to +175 –		°C

MECHANICAL

			Dimensions				
			Millimeters		Inches		Note
		DIMℕ	MIN	MAX	MIN	MAX	
	B	А	1.65	2.16	0.065	0.085	-
Dı		В	17.8	33.0	0.70	1.30	-
		С	3.18	6.35	0.125	0.250	-
) <u>C</u>	D	-	0.80	-	0.030	1
D]		Е	0.69	0.81	0.027	0.032	-
Е►	B B	Note: (1) Lea	ad diame	eter unco	ntrolled o	over this re	egion.

These products are qualified to MIL-PRF-19500/477 and are prefered parts as listed in MIL-STD-701. They can be supplied fully released as JANTX, JANTXV and JANS versions.

Weight = 0.013oz

- QUICK **REFERENCE DATA**
 - $V_{R} = 50 150V$
 - IF = 2.5A
 - $t_{rr} = 25 nS$
 - $I_R = 1 \mu A$



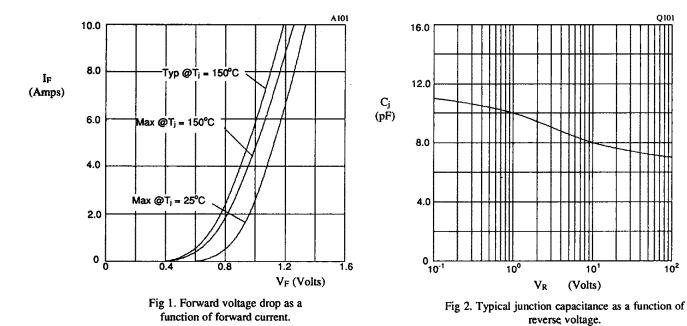
ELECTRICAL CHARACTERISTICS (@ 25°C unless otherwise specified)

	Symbol	1N5802	1N5804	1N5806	Unit
Average forward current max. (pcb mounted; $T_A = 55^{\circ}C$) for sine wave for square wave (d = 0.5)	I _{F(AV)} I _{F(AV)}	•	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 _{F(AV)} IF(AV) I ² t		3.1 3.3 10.0		A A A ² S
Forward voltage drop max. @ $I_F = 1.0A$, $T_j = 25^{\circ}C$	VF				v
Reverse current max. @ V_{RWM} , $T_j = 25^{\circ}C$ @ V_{RWM} , $T_j = 100^{\circ}C$ Reverse recovery time max.	I _R I _R t _{rr}	<u>م</u>	1.0 50 25		μA μA nS
1.0A I _F to 1.0A I _R . Recovers to 0.1A I _{RR} . Junction capacitance typ.	ст Сј		25		ρF
$@ V_{R} = 5V$, f = 1MHz					

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 _{əjl} R _{əja}		36 100		°C/W °C/W





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