

**Microsemi Corp.**

*The diode experts*



SANTA ANA, CA

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**1N3595**



## FEATURES

- HIGH CONDUCTANCE
- EXTREMELY LOW REVERSE CURRENT
- ULTRA-STABLE OPERATION UP TO +150°C
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- JANS/TX/TXV TYPES AVAILABLE PER MIL-S-19500-241
- METALLURGICALLY BONDED

## MAXIMUM RATINGS

Operating Temperature: -65°C to +150°C

Storage Temperature: -65°C to +200°C

Surge Current: 4 Amps

## ELECTRICAL CHARACTERISTICS

TYPE	FORWARD VOLTAGE DROP V <sub>F</sub> @ I <sub>F</sub>		FORWARD CURRENT I <sub>F</sub>	REVERSE CURRENT (MAX) I <sub>R</sub> @ 125V		REVERSE CURRENT (MAX) I <sub>R</sub> @ 30V	REVERSE RECOVERY (MAX) t <sub>rr</sub>	JUNCTION CAPACITANCE (MAX) C @ 0V	
	VOLTS			mADC	nA				
	MIN	MAX			25°C				125°C
J/JTX/ JTXV/S						125°C	μsec	pF	
1N3595	.83	1.00	200	1.0	500	300	3.0	8.0	
	.79	.92	100	1.0		300	3.0	8.0	
	.74	.88	50	1.0		300	3.0	8.0	
	.65	.80	10	1.0	3μA	300	3.0	8.0	
	.60	.75	5	1.0	@	300	3.0	8.0	
	.52	.68	1	1.0	150°C	300	3.0	8.0	

## GENERAL PURPOSE DIODES

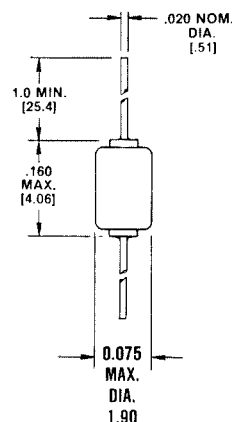


FIGURE 1  
PACKAGE D035

## MECHANICAL CHARACTERISTICS

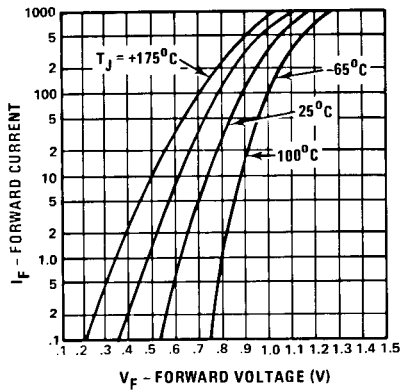
CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper clad steel.

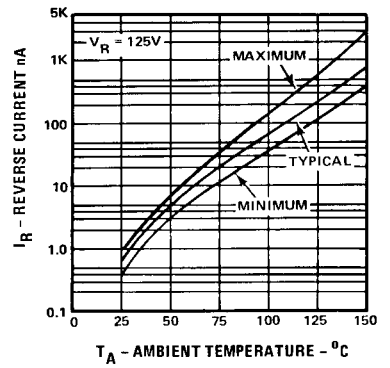
MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

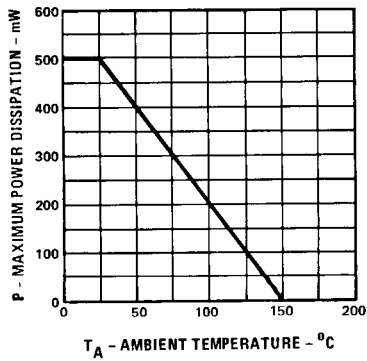
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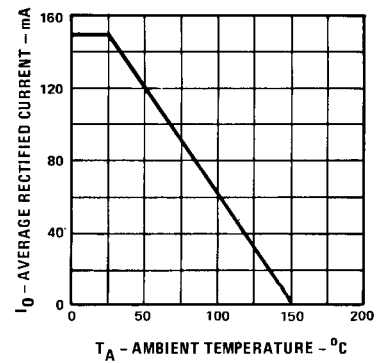
**FIGURE 2**  
TYPICAL FORWARD VOLTAGE VS.  
FORWARD CURRENT



**FIGURE 3**  
REVERSE CURRENT VS.  
AMBIENT TEMPERATURE



**FIGURE 4**  
POWER DERATING CURVE



**FIGURE 5**  
AVERAGE RECTIFIED CURRENT  
VS. AMBIENT TEMPERATURE

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