

Microsemi Corp.
The diode experts



1N3595



SANTA ANA, CA

For more information call:
(714) 979-8220

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 _F @ I _F		FORWARD CURRENT I _F	REVERSE CURRENT (MAX) I _R @ 125V		REVERSE CURRENT (MAX) I _R @ 30V	REVERSE RECOVERY (MAX) t _{rr}	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	

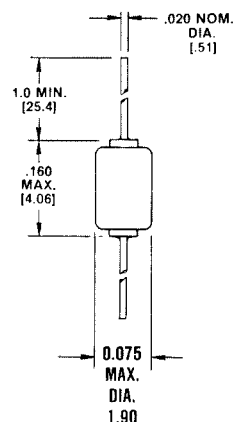


FIGURE 1
PACKAGE D035

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

1N3595

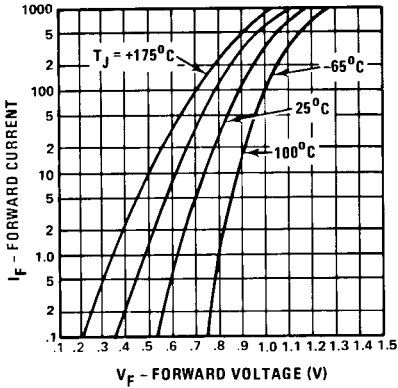


FIGURE 2
TYPICAL FORWARD VOLTAGE VS.
FORWARD CURRENT

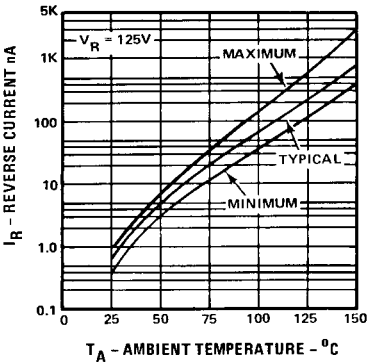


FIGURE 3
REVERSE CURRENT VS.
AMBIENT TEMPERATURE

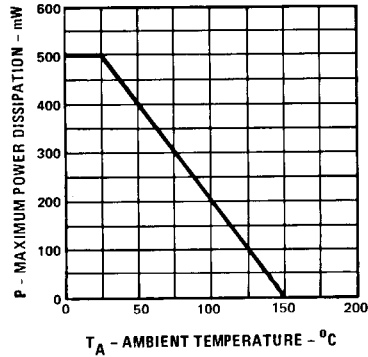


FIGURE 4
POWER DERATING CURVE

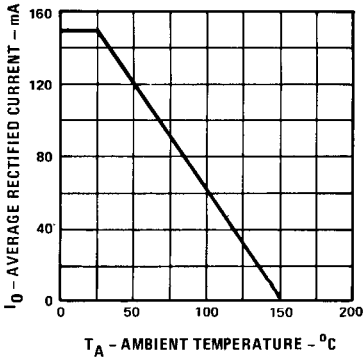


FIGURE 5
AVERAGE RECTIFIED CURRENT
VS. AMBIENT TEMPERATURE