

V_F Controlled Diodes

Qualified per MIL-PRF-19500/241

DESCRIPTION:

This voidless hermetically sealed Vf controlled diode is military qualified per MIL-PRF-19500/241 and is targeted for space, commercial and military aircraft, military vehicles, shipboard markets and all high reliability applications.

FEATURES / BENEFITS:

- ✓ Hermetic, non-cavity glass package
- ✓ Category I Metallurgically bonded
- ✓ All devices are 100% hot solder dipped
- ✓ JAN/ JANTX/ JANTXV available per MIL-PRF-19500/241
- ✓ "JANS Plus" removes atypical/out of family V_F

MAXIMUM RATINGS:

- ✓ Operating and Storage Temperature: -65°C to +175°C
- ✓ Forward Voltage (max): 1Vdc @ 200mA, .92Vdc @ 100mA
- ✓ Reverse Leakage Current (max): 1 nAd c @ V_R

ELECTRICAL CHARACTERISTICS:

Type	V _R	I _o	I _{FSM} Tp=1s	T _{STG} , T _J	R _{θJL} L=.375	R _{θJEC} L=0	R _{θJX}
	V(pk)	MA	mA(pk)	°C	°C/W	°C/W	°C/W
1N3595, 1N3595US-1	125	150	500	-65 to +175	250	40	245

Maximum ratings T_A=+25°C

*Sensitron **space equivalent diodes** are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.

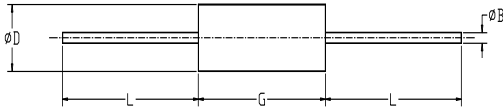
SENSITRON SEMICONDUCTOR

1N3595-1, 1N3595US-1
VF CONTROLLED DIODE

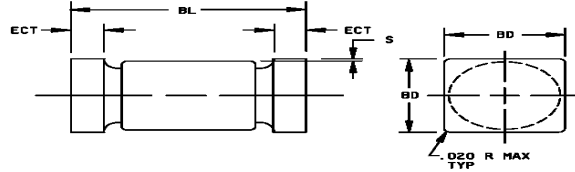
TECHNICAL DATA DATA SHEET 5086, REV. A.1

PACKAGE DIMENSIONS (inches/mm)

AXIAL



MELF (Add "US")



1N3595, 1N3595US-1

PACKAGE STYLE	DIMENSIONS - INCHES (MILLIMETERS)			
	ϕB	ϕD	G	L
DO-35	.018/.022 0.46/0.56	.056/.080 1.42/2.03	.130/.180 3.30/4.57	1.00/1.5 25.4/38.10

1N3595, 1N3595US-1

PACKAGE STYLE	DIMENSIONS - INCHES (MILLIMETERS)			
	BL	BD	S	ECT
D-5D	.165/.195 4.19/4.95	.070/.085 1.78/2.16	0.003 Min	.019/.028 0.48/0.71

PART ORDERING INFORMATION:

The following part numbers can be purchased in either axial or surface mount devices and screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	*Part Number-- Leaded Package (example for 1N3595-1)	*Part Number-- Surface Mount Package (example for 1N3595-1US)
1N	1N3595-1	1N3595US-1
JAN	JAN1N3595-1	JAN1N3595US-1
SJ	SJ3595-1	SJ3595US-1
JANTX	JANTX1N3595-1	JANTX1N3595US-1
SX	SX3595-1	SX3595US-1
JANTXV	JANTXV1N3595-1	JANTXV1N3595US-1
SV	SV3595-1	SV3595US-1
JANS	JANS1N3595-1	JANS1N3595US-1
SS	SS3595-1	SS3595US-1

*Parts can also be ordered Tape & Reel

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- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
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