- AVAILABLE IN JAN, JANTX, JANTXV, AND JANS PER MIL-PRF-19500/356
- 5 WATT ZENER DIODES
- NON CAVITY CONSTRUCTION
- METALLURGICALLY BONDED

1N6632US THRU 1N6637US AND 1N5968US AND 1N5969US

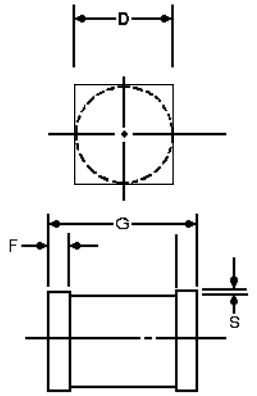
MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
Power Dissapation: 5W @ T_{EC}=+125°C
Power Derating: 100mW/°C above T_{EC}=+125°C
Forward Voltage: 1.5 V dc @ I_F=1A dc

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE	NOMINAL ZENER VOLTAGE V_Z@I_{ZT} ±5%	TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE		REGULATION ΔV_Z	MAXIMUM REVERSE LEAKAGE CURRENT VOLTAGE		SURGE CURRENT
			Z_{Z}@I_{ZT}	Z_{ZK}(1) @ I_{ZK}=5mA		I_R	V_R	I_{ZSM}
	VOLTS	mA	OHMS	OHMS	VOLTS	μA	VOLTS	AMPS
1N6632US	3.3	380	3.0	500	0.90	300	1.0	20.0
1N6633US	3.6	350	2.5	500	0.80	250	1.0	18.7
1N6634US	3.9	320	2.0	500	0.75	175	1.0	17.6
1N6635US	4.3	290	2.0	500	0.70	25	1.0	16.4
1N6636US	4.7	260	2.0	450	0.60	20	1.0	15.3
1N6637US	5.1	240	1.5	400	0.50	5	1.0	14.4
1N5968US	5.6	220	1.0	400	0.4	5000	4.28	20
1N5969US	6.2	220	1.0	1000	0.5	1000	4.74	20

NOTE 1 I_{ZK}=1.0 mA for 1N5969



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
D	3.48	3.76	.137	.148
F	0.48	0.71	0.019	0.028
G	5.08	5.72	.200	.225
S	0.03MIN.		.001MIN.	

FIGURE 1

DESIGN DATA

CASE: D-5B, Hermetically sealed glass case, PER MIL-PRF 19500/356

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JEC}$): 10 ˚C/W maximum at L = 0

THERMAL IMPEDANCE: ($Z_{\Theta JX}$): 3 ˚C/W maximum

POLARITY: Diode to be operated with the banded (cathode) end positive.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) of this device is approximately + 4PPM / °C. The COE of the Mounting Surface System should be selected to provide a suitable match with this device.

COMPENSATED DEVICES INCORPORATED
22 COREY STREET, MELROSE, MASSACHUSETTS 02176
PHONE (781) 665-1071 FAX (781) 665-7379
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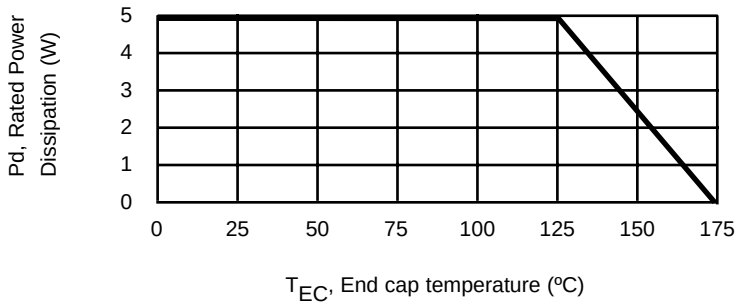

POWER DERATING CURVE

FIGURE 2

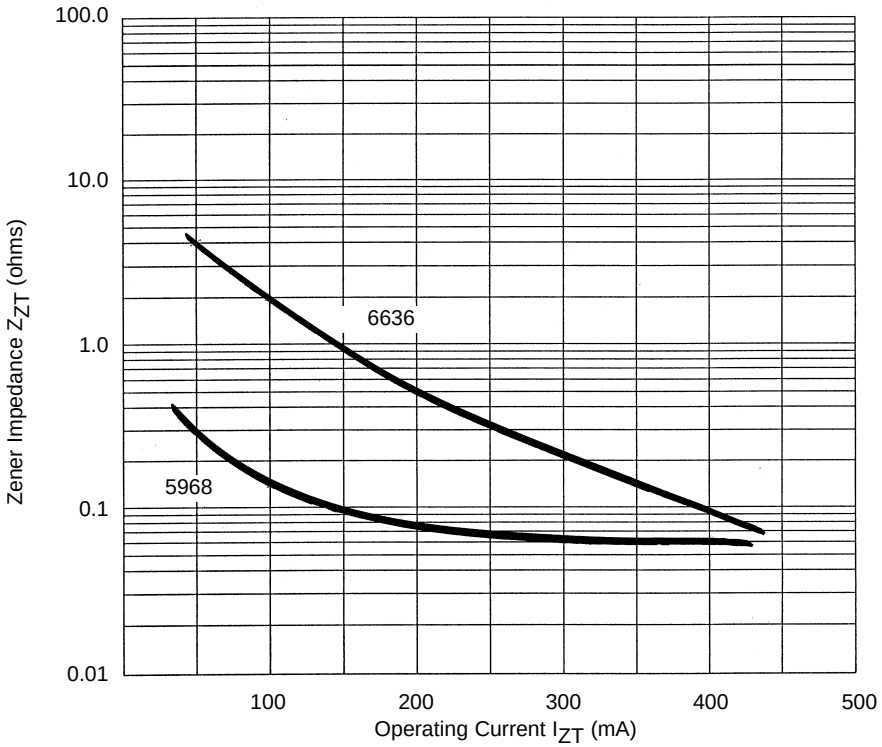

FIGURE 3
Zener Impedance vs. Operating Current