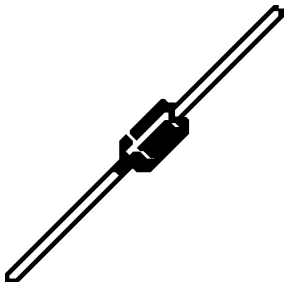
Data Sheet

1 Watt ZENER DIODES (110V to 390 V)

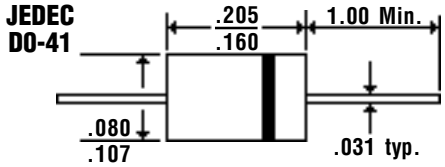
Z10-110~390

Description



DO-41

Mechanical Dimensions



Dimensions in inch

eatures

- For surface mounted applications
- 1.0 W power dissipation
- Ideally suited for automated assembly processes
- Excellent Clamping Capability
- Low Zener Impedance

Mechanical Data

- Case: Molded plastic DO-41
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Polarity: cathode band
- Mounting position: Any
- Weight: 0.34 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Maximum Forward Voltage Drop at IF=10mA	V_F	1.2	V
Power Dissipation (Note 1)	P_D	1.0	W
Thermal Resistane Junction to Ambient Air	R_{thJA}	300	°C/W
Operating junction and Storage Temperature Range	T_J	-55 to +150	°C

NOTES : (1) Mounted on 5.0mm^2(.013mm thick) land areas.
(2) Measurd on 8.3ms, single half-sine wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

Data Sheet

1 Watt ZENER DIODES (110V to 390 V)

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
STORAGE AND OPERATING TEMPERATURE RANGE -55 TO + 150℃

ELECTRICAL CHARACTERISTICS (TA=25℃ UNLESS OTHERWISE NOTED) VF=1.2V MAX, IF = 200mA FOR ALL TYPES								
TYPE	ZENER BREAKDOWN VOLTAGE	DYNAMIC IMPEDANCES @ 25℃ TA				MAXIMUM REVERSE CURRENT @ MEASUREMENT VOLTAGE AND 25℃ TA		MAXIMUM FORWARD VOLTAGE @25℃ TA @IF=0.2A
	V_Z	I_{ZT}	Z_{ZT}	I_{ZK}	Z_{ZK}	V_R	I_R	V_F
	V	mA	ohms	mA	ohms	V	μA	V
Z10-110	110	5	750	0.25	5000	80	0.5	1.2
Z10-115	115	5	750	0.25	5000	85	0.5	1.2
Z10-120	120	5	850	0.25	5000	90	0.5	1.2
Z10-130	130	5	1000	0.25	5000	95	0.5	1.2
Z10-140	140	5	1200	0.25	5000	105	0.5	1.2
Z10-150	150	5	1300	0.25	5000	110	0.5	1.2
Z10-160	160	5	1500	0.25	5000	120	0.5	1.2
Z10-170	170	5	2200	0.25	5000	130	0.5	1.2
Z10-180	180	5	2200	0.25	5000	140	0.5	1.2
Z10-190	190	5	2500	0.25	5000	150	0.5	1.2
Z10-200	200	5	2500	0.25	8000	165	0.5	1.2
Z10-210	210	5	5000	0.25	9000	165	0.5	1.2
Z10-220	220	5	5000	0.25	9000	170	0.5	1.2
Z10-230	230	5	5000	0.25	9000	175	0.5	1.2
Z10-240	240	5	5000	0.25	9000	180	0.5	1.2
Z10-250	250	5	5000	0.25	9000	190	0.5	1.2
Z10-260	260	5	5000	0.25	9000	195	0.5	1.2
Z10-270	270	5	5000	0.25	9000	200	0.5	1.2
Z10-280	280	5	5000	0.25	9000	210	0.5	1.2
Z10-290	290	5	5000	0.25	9000	215	0.5	1.2
Z10-300	300	5	5000	0.25	9000	220	0.5	1.2
Z10-310	310	5	5000	0.25	9500	225	0.5	1.2
Z10-320	320	5	5000	0.25	9500	233	0.5	1.2
Z10-330	330	5	5000	0.25	9500	240	0.5	1.2
Z10-350	**350**	**5**	**5000**	**0.25**	**9500**	**268**	**0.5**	**1.2**
Z10-390	**390**	**5**	**5000**	**0.25**	**9500**	**284**	**0.5**	**1.2**

NOTE：STANDARD± 20%, SUFFIX〝A〞± 10%,SUFFIX〝B〞± 5%

Data Sheet

1 Watt ZENER DIODES (110V to 390 V)

RATING AND CHARACTERISTIC CURVES Z1-110 THRU 390

FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPARION

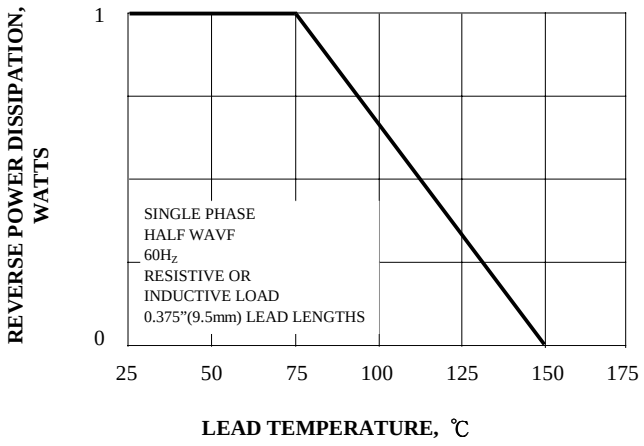


FIG. 2 - ZENER VOLTAGE VERSUS ZENER CURRENT

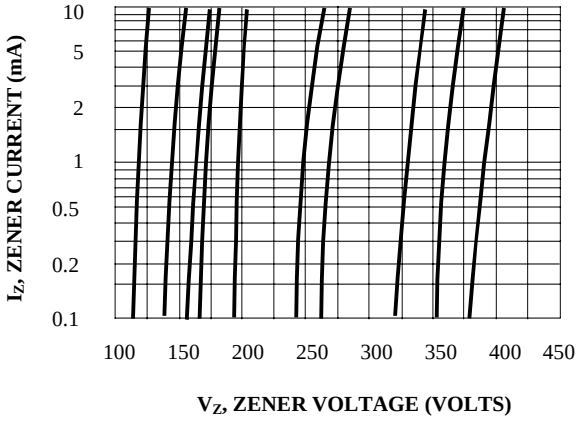


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

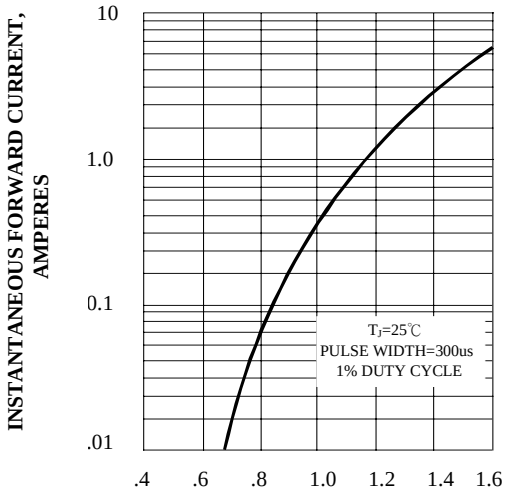


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

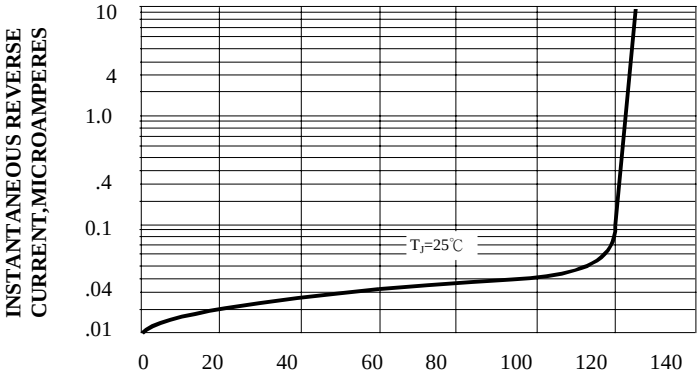


FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS