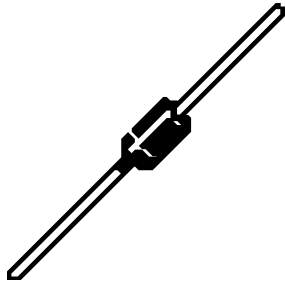


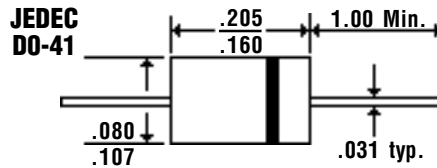
Z10-110~390

Description



DO-41

Mechanical Dimensions



Dimensions in inch

Features

- ★ 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 Resistance 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 5.0mm² (.013mm thick) land areas.
 (2) Measured on 8.3ms, single half-sine wave or equivalent square wave, duty cycle = 4 pulses per minute maximum. □



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°C

ELECTRICAL CHARACTERISTICS (TA=25°C UNLESS OTHERWISE NOTED) VF=1.2V MAX, IF = 200mA FOR ALL TYPES								
TYPE	ZENER BREAKDOWN VOLTAGE	DYNAMIC IMPEDANCES @ 25°C TA				MAXIMUM REVERSE CURRENT @ MEASUREMENT VOLTAGE AND 25°C TA		MAXIMUM FORWARD VOLTAGE @25°C TA @IF=0.2A
		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%

RATING AND CHARACTERISTIC CURVES Z1-110 THRU 390

FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPARION

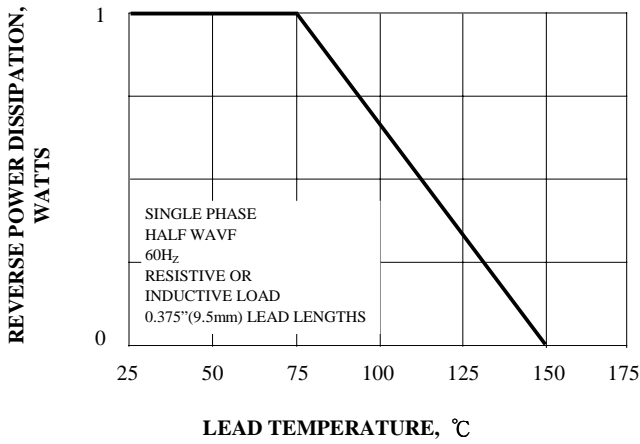


FIG. 2 - ZENER VOLTAGE VERSUS ZENER CURRENT

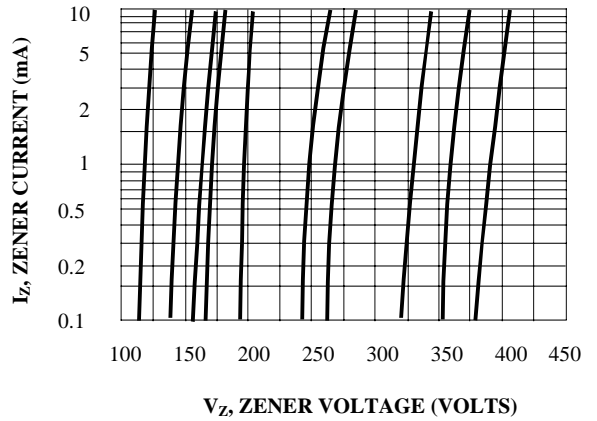


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

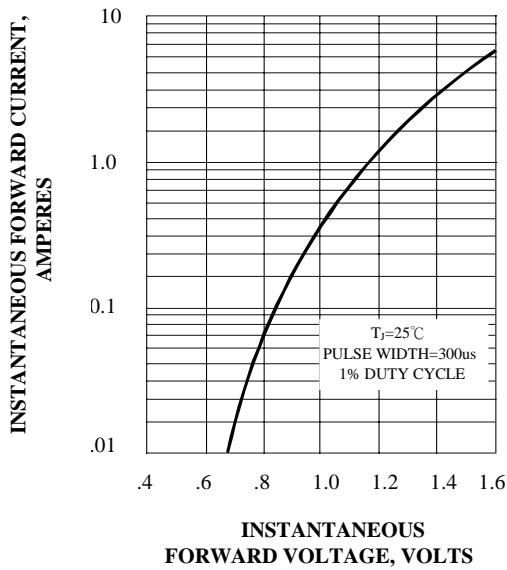


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

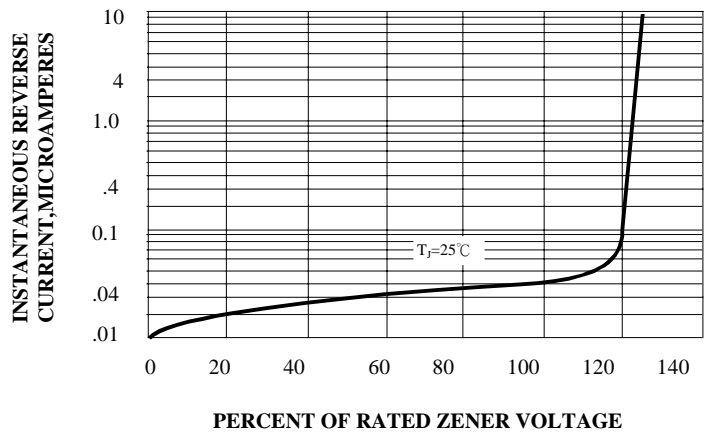


FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS

