

# Z110 THRU Z330

Axial Zener type

## Features

1000mWatt PowerDissipation

High Voltages from 110V ~ 330V

Extremely axial lead package

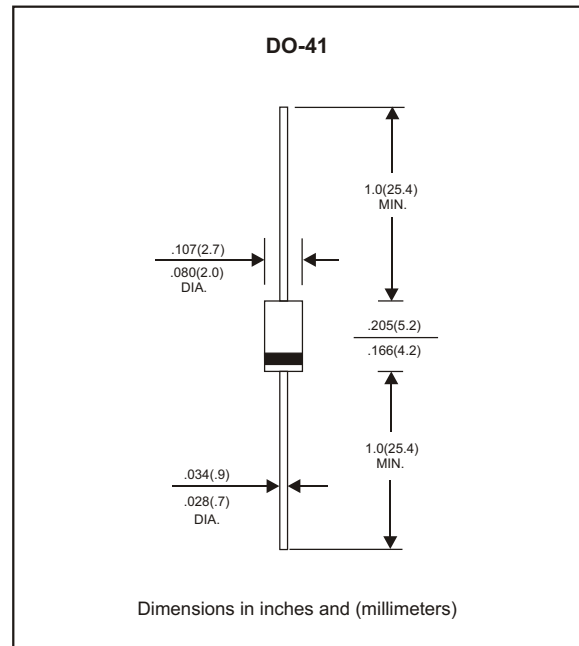
## Mechanical data

Case : Molded Plastic, DO-41

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Indicated by cathode band

Mounting Position : Any



## MAXIMUM RATINGS (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 200 \text{ mADC}$	$V_F$			1.20	V
Power Dissipation		$P_D$			1000	mW
Storage temperature		$T_{STG}$	-55		+150	$^{\circ}\text{C}$
Operating temperature		$T_J$	-55		+150	$^{\circ}\text{C}$

**Z110 THRU Z330****ELECTRICAL CHARACTERISTICS (at  $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

Part No.	Marking code	Zener voltage	Test current	Zener impedance			Leakage current		Surge current
		$V_Z @ I_{ZT}$	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R$	$V_R$	$I_{Surge}$
		Volts	mA	OHMs	OHMs	mA	uA	Volts	mA
Z110		110	5.0	750	5000	0.25	0.5	80	
Z115		115	5.0	750	5000	0.25	0.5	85	
Z120		120	5.0	850	5000	0.25	0.5	90	
Z130		130	5.0	1000	5000	0.25	0.5	95	
Z140		140	5.0	1200	5000	0.25	0.5	105	
Z150		150	5.0	1300	5000	0.25	0.5	110	
Z160		160	5.0	1500	5000	0.25	0.5	120	
Z170		170	5.0	2200	5000	0.25	0.5	130	
Z180		180	5.0	2200	5000	0.25	0.5	140	
Z190		190	5.0	2500	5000	0.25	0.5	150	
Z200		200	5.0	2500	8000	0.25	0.5	165	
Z210		210	5.0	5000	9000	0.25	0.5	165	
Z220		220	5.0	5000	9000	0.25	0.5	170	
Z230		230	5.0	5000	9000	0.25	0.5	175	
Z240		240	5.0	5000	9000	0.25	0.5	180	
Z250		250	5.0	5000	9000	0.25	0.5	190	
Z260		260	5.0	5000	9000	0.25	0.5	195	
Z270		270	5.0	5000	9000	0.25	0.5	200	
Z280		280	5.0	5000	9000	0.25	0.5	210	
Z290		290	5.0	5000	9000	0.25	0.5	215	
Z300		300	5.0	5000	9000	0.25	0.5	220	
Z310		310	5.0	5000	9000	0.25	0.5	225	
Z320		320	5.0	5000	9000	0.25	0.5	233	
Z330		330	5.0	5000	9000	0.25	0.5	240	

## Note :

20% tolerance of Zener voltage for no suffix ex: Z110  
 10% tolerance of Zener voltage for suffix "A" ex: Z110A  
 5% tolerance of Zener voltage for suffix "B" ex: Z110B  
 +5%, -0% tolerance of Zener voltage for suffix "C" ex: Z110C

## RATING AND CHARACTERISTIC CURVES (Z110 THRU Z330)

FIG.1-TOTAL POWER DISSIPATION VS. AMBIENT TEMPERATURE

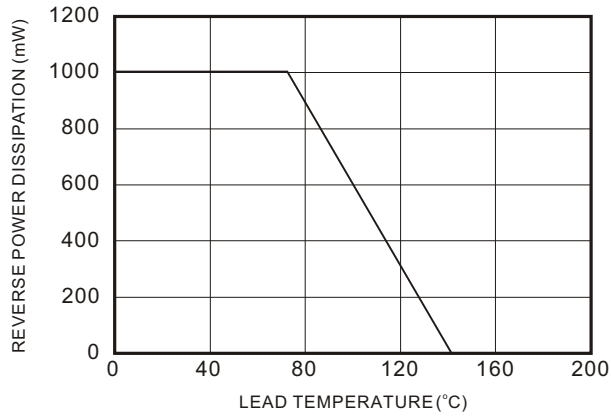


FIG.2-TYPICAL FORWARD CHARACTERISTICS

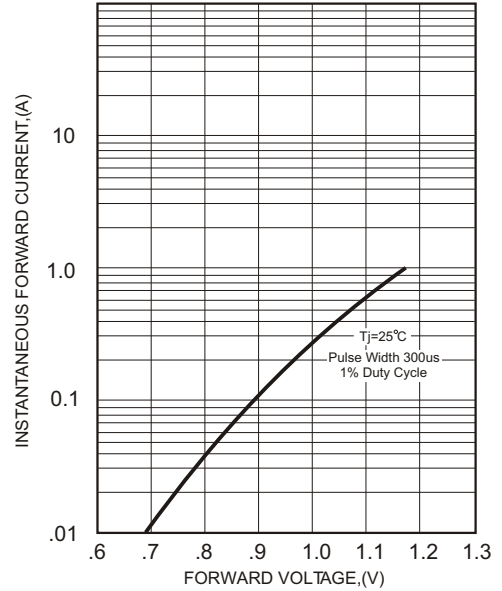


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

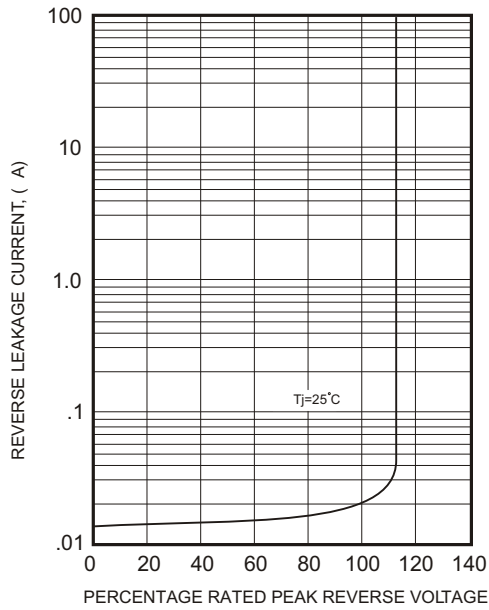


FIG.4 - TYPICAL TEMPERATURE COEFFICIENTS

