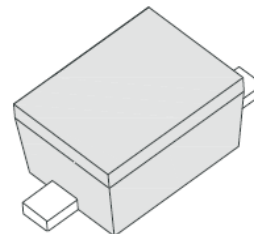


400mW Two Terminals SMD Zener Diodes

Features

- Planar Die Construction
- 400mW Power Dissipation
- Zener Voltage 4.7v to 36v
- Suitable for Automated Assembly Processes
- RoHS Compliance and Halogen Free



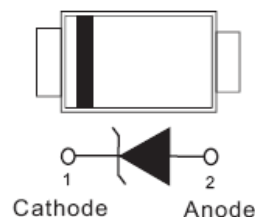
SOD-323F

HALOGEN
FREE



Mechanical Data

Case:	SOD-323F, molded plastic
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes the cathode end
Approx Weight:	0.0041 grams



Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
P_D	Power Dissipation	400	mW	(Note)
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C	
R_{θJA}	Thermal Resistance Junction to Ambient	650	°C/W	

Note: Mounted on 5.0mm² (0.013mm thick) land areas

400mW Two Terminals SMD Zener Diodes

TZDP4.7BWS - TZDP36BWS

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ I _{ZT}			Test Current	Max. Zener Impedance			Max. Reverse Leakage Current I _R @ V _R	
		V _Z (V)			I _{ZT} (mA)	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}		I _R (μA)	V _R (V)
		Nom.	Min.	Max.		Ω	Ω	mA		
TZDP4.7BWS	Z7	4.7	4.55	4.75	5	90	600	1	0.75	1.5
TZDP5.1BWS	Z8	5.1	4.96	5.2	5	60	800	0.5	0.75	1.5
TZDP5.6BWS	Z9	5.6	5.48	5.73	5	50	400	0.5	0.50	3.0
TZDP6.2BWS	ZA	6.2	6.06	6.33	5	50	80	0.5	0.50	3.0
TZDP6.8BWS	ZB	6.8	6.65	6.93	5	40	60	0.5	0.50	3.5
TZDP7.5BWS	ZC	7.5	7.28	7.6	5	10	60	0.5	0.50	4.0
TZDP8.2BWS	ZD	8.2	8.02	8.36	5	10	60	0.5	0.50	5.0
TZDP9.1BWS	ZE	9.1	8.85	9.23	5	10	60	0.5	0.50	6.0
TZDP10BWS	ZF	10	9.77	10.21	5	10	60	0.5	0.10	7.0
TZDP11BWS	ZG	11	10.78	11.22	5	10	60	0.5	0.10	8.0
TZDP12BWS	ZH	12	11.74	12.24	5	10	80	0.5	0.10	9.0
TZDP13BWS	ZJ	13	12.91	13.49	5	10	80	0.5	0.10	10.0
TZDP15BWS	ZK	15	14.34	14.98	5	15	80	0.5	0.05	11.0
TZDP16BWS	ZL	16	15.85	16.51	5	20	80	0.5	0.05	12.0
TZDP18BWS	ZM	18	17.56	18.35	5	20	80	0.5	0.05	13.0
TZDP20BWS	ZN	20	19.52	20.39	5	20	100	0.5	0.05	15.0
TZDP22BWS	ZP	22	21.54	22.47	5	25	100	0.5	0.05	17.0
TZDP24BWS	ZQ	24	23.72	24.78	5	30	120	0.5	0.05	19.0
TZDP27BWS	ZR	27	26.19	27.53	5	40	150	0.5	0.05	21.0
TZDP30BWS	ZS	30	29.19	30.69	5	40	200	0.5	0.05	23.0
TZDP33BWS	ZT	33	32.15	33.79	5	40	250	0.5	0.05	25.0
TZDP36BWS	ZU	36	35.07	36.87	5	60	300	0.5	0.05	27.0

Typical Characteristics Curves

Fig.1- Temperature Coefficients

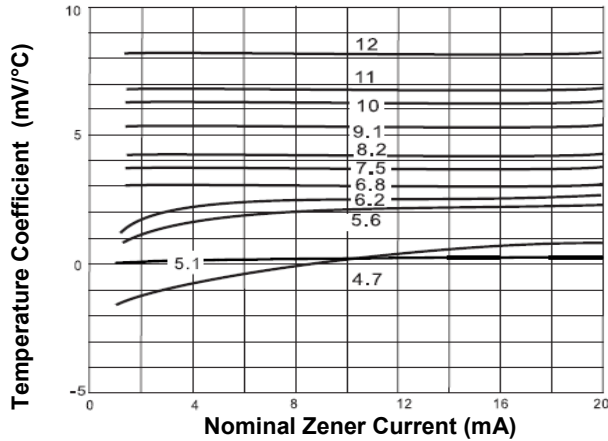


Fig.2- Temperature Coefficients

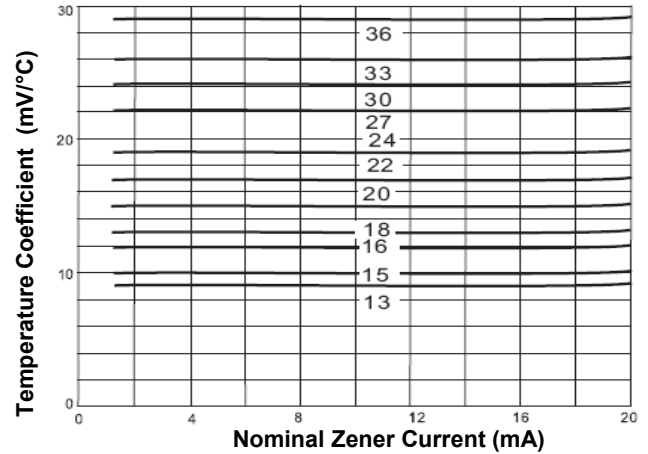


Fig.3- Forward Current

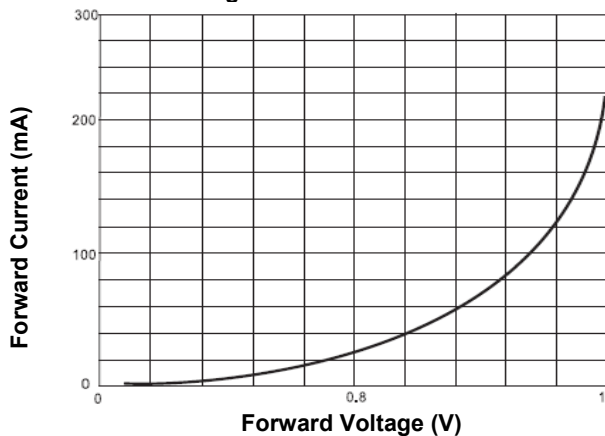


Fig.4- Power Derating Curve

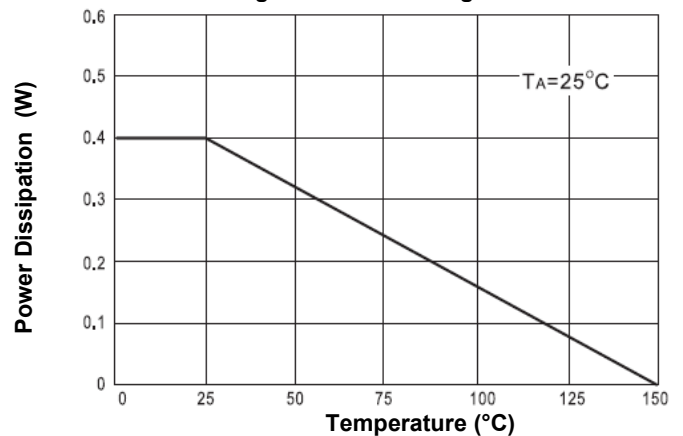


Fig.5- Zener Breakdown Characteristics

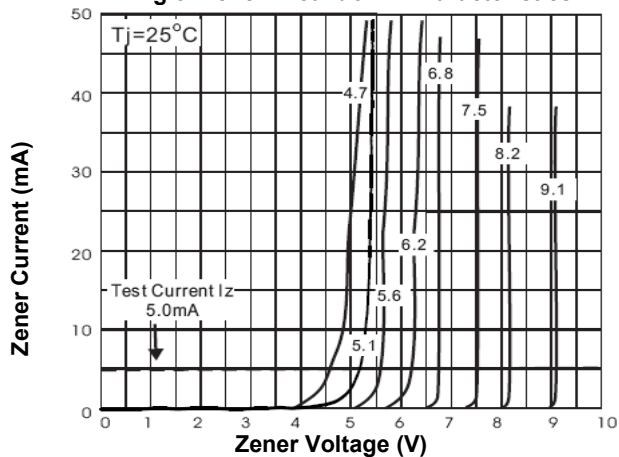
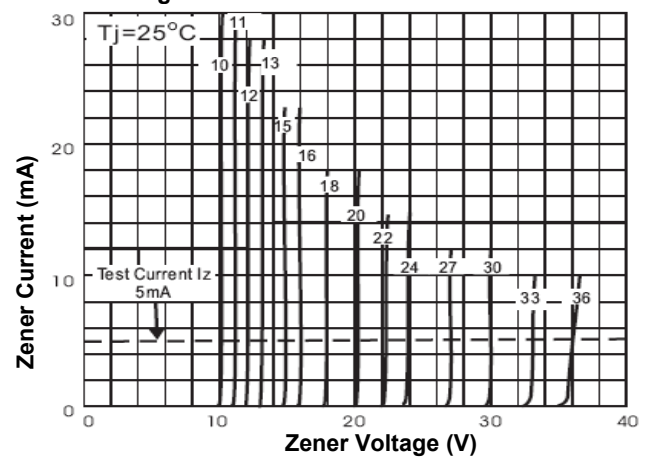


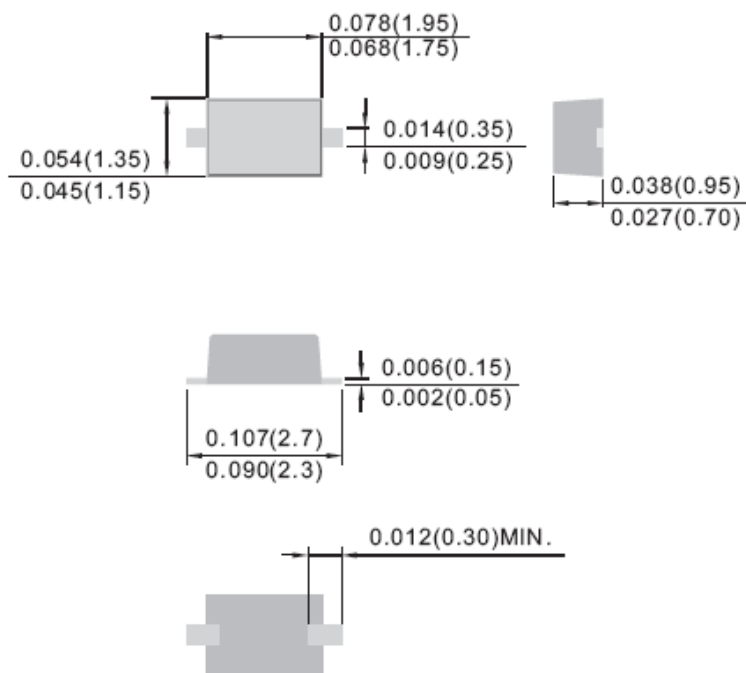
Fig.6- Zener Breakdown Characteristics



400mW Two Terminals SMD Zener Diodes

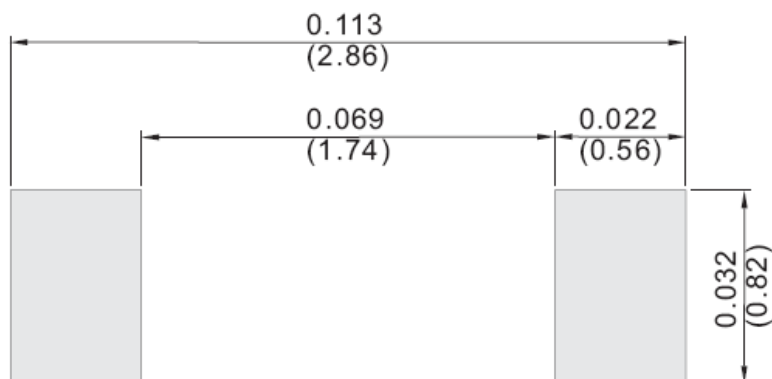
TZDP4.7BWS - TZDP36BWS

Dimensions in inch (mm)



SOD-323F

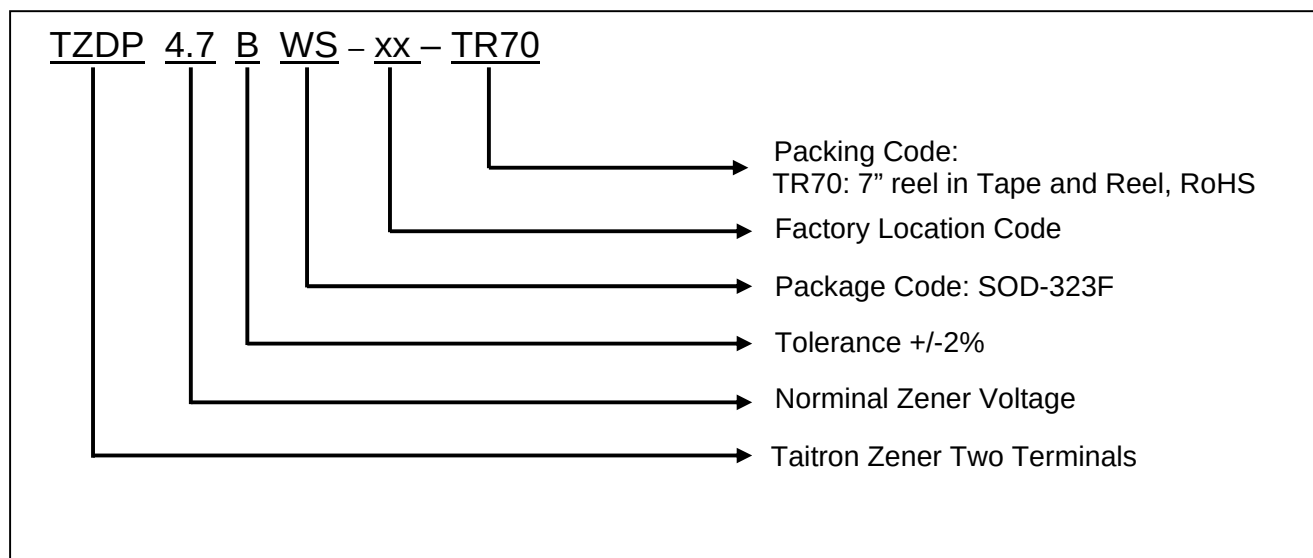
Mounting Pad Layout in inch (mm)



400mW Two Terminals SMD Zener Diodes

TZDP4.7BWS - TZDP36BWS

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