

Z100 THRU Z330

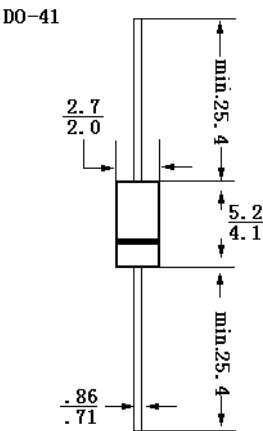
SILICON PLANAR ZENER DIODES

Voltage Range: 100 to 330V Current: 0.5A

Standard Zener voltage tolerance is $\pm 10\%$. Add Suffix "B" for $\pm 5\%$ tolerance. Other tolerances are available upon request.

Mechanical Data

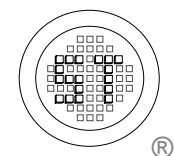
- **Case:** DO-41 molded plastic
- **Terminals:** Plated axial leads, solderable per MIL-STD202E, method 208C
- **Mounting Position:** Any



DO-41 Plastic Package
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

	Symbol	Value	Unit
Zener Current (see Table "Characteristics")			
Power Dissipation	P_{tot}	1	W
Forward Voltage @ $I_F = 1\text{A}$	V_F	1	V
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-65 to +175	$^{\circ}\text{C}$



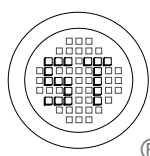
SEMTECH ELECTRONICS LTD.
(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



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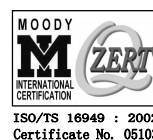
TYPE	Zener Voltage		Zener Impedance		Zener Impedance		Reverse Current		Forward Voltage
	V_Z (V) at I_{zt} (mA)		R_Z (Max)(Ω) at I_{zt} (mA)		R_{ZK} (Max)(Ω) at I_{ZK} (mA)		I_R (Max)(μ A) at V_R (V)		$I_F = 1.0A$ (Max)
Z100	100	2.5	350	2.5	3000	0.25	0.5	75	1.0
Z105	105	2.4	400	2.4	3500	0.25	0.5	77	1.0
Z110	110	2.3	450	2.3	4000	0.25	0.5	80	1.0
Z115	115	2.2	500	2.2	4250	0.25	0.5	85	1.0
Z120	120	2.1	550	2.1	4500	0.25	0.5	90	1.0
Z130	130	1.9	700	1.9	5000	0.25	0.5	95	1.0
Z135	135	1.85	750	1.85	5250	0.25	0.5	100	1.0
Z140	140	1.8	800	1.8	5500	0.25	0.5	105	1.0
Z150	150	1.7	1000	1.7	6000	0.25	0.5	110	1.0
Z160	160	1.6	1100	1.6	6500	0.25	0.5	120	1.0
Z170	170	1.5	1200	1.5	6750	0.25	0.5	130	1.0
Z180	180	1.4	1350	1.4	7000	0.25	0.5	140	1.0
Z190	190	1.3	1500	1.3	7500	0.25	0.5	150	1.0
Z200	200	1.2	1700	1.2	8000	0.25	0.5	160	1.0
Z220	220	1.1	2000	1.1	8250	0.25	0.5	170	1.0
Z240	240	1.0	2200	1.0	8500	0.25	0.5	180	1.0
Z270	270	0.9	2500	0.9	8750	0.25	0.5	200	1.0
Z300	300	0.8	3000	0.8	9000	0.25	0.5	220	1.0
Z330	330	0.75	4000	0.75	9500	0.25	0.5	240	1.0

(1). Tested with pulses $t_p = 20$ ms.



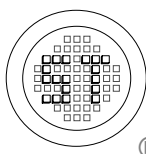
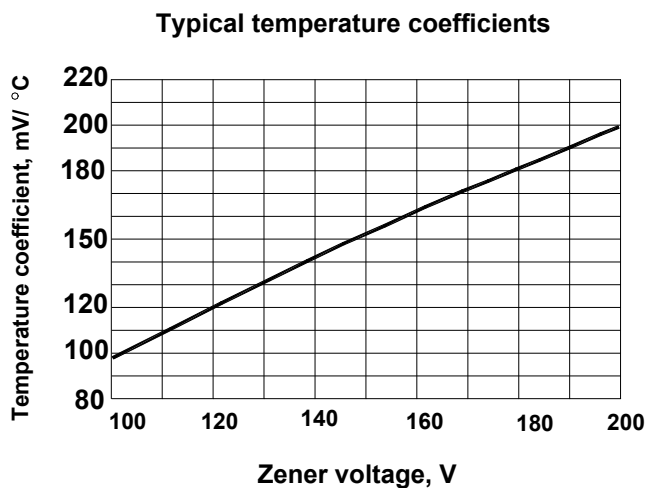
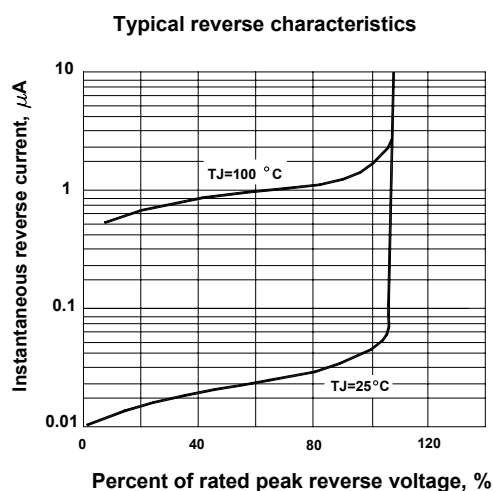
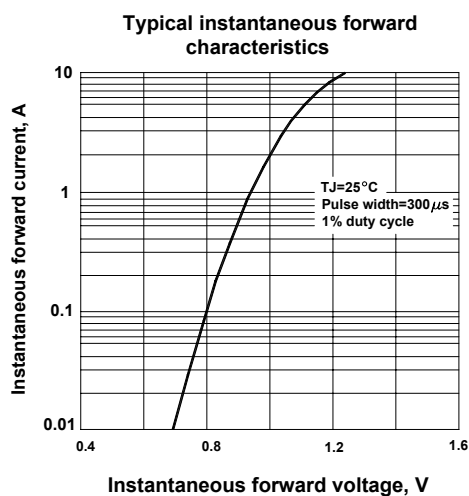
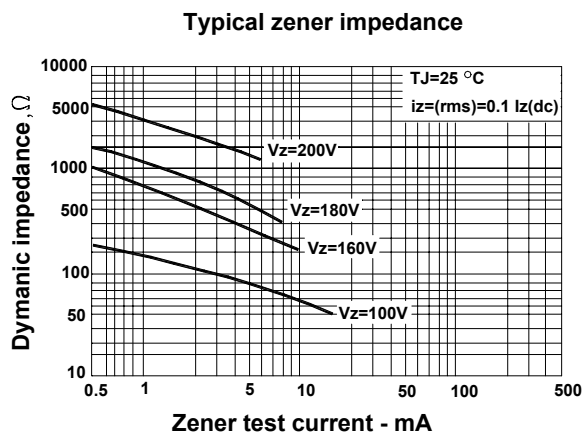
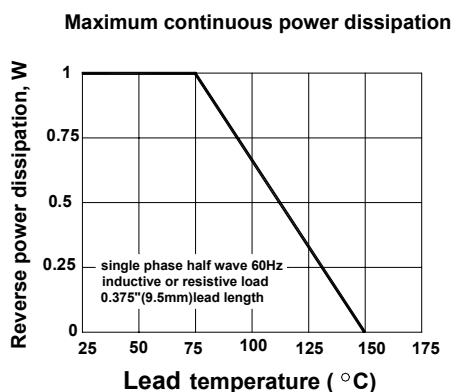
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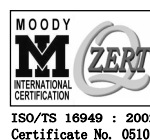
Dated : 22/01/2005

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