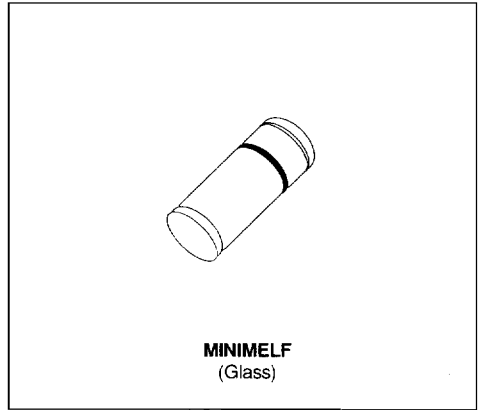




ZENER DIODES

- VOLTAGE RANGE : 2.4V TO 100V



**DESCRIPTION**

500mW hermetically sealed glass silicon Zener diodes.

**ABSOLUTE RATINGS** (limiting values)

Symbol	Parameter	Value	Unit
$P_{tot}$	Power Dissipation	$T_{lead} = 25^{\circ}C$ 0.5	W
$I_{zM}$	Continuous Reverse Current	$T_{lead} = 25^{\circ}C$ See page 2	mA
$T_{stg}$ $T_j$	Storage and Junction Temperature Range	- 65 to 175 - 55 to 175	$^{\circ}C$
$T_L$	Maximum Temperature for Soldering during 15s	260	$^{\circ}C$

**THERMAL RESISTANCE**

Symbol	Parameter	Value	Unit
$R_{th(j-l)}$	Junction-leads	300	$^{\circ}C/W$

**ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25^{\circ}\text{C}$  unless otherwise specified)

Types	$V_{ZT}/I_{ZT}^*$		$r_{ZT}/I_{ZT}^*$	$I_{ZT}^*$	$r_{ZK}/I_{ZK}$		$\infty V_Z$		$I_R/V_R$ $T_{amb}$ $25^{\circ}\text{C} \quad 150^{\circ}\text{C}$		$V_R$	$I_{ZM}$
	min	max	max	(mA)	max	(mA)	min	max	max	max	(V)	(mA)
	(V)		( $\Omega$ )		( $\Omega$ )		$(10^{-4}/^{\circ}\text{C})$		$(\mu\text{A})$			
BZV 55 C 2V4	2.28	2.56	85	5	600	1	-8	-6	50	100	1	155
BZV 55 C 2V7	2.5	2.9	85	5	600	1	-8	-6	10	50	1	135
BZV 55 C 3V0	2.8	3.2	85	5	600	1	-8	-6	4	40	1	125
P BZV 55 C 3V3	3.1	3.5	85	5	600	1	-8	-5	2	40	1	115
P BZV 55 C 3V6	3.4	3.8	85	5	600	1	-8	-4	2	40	1	105
P BZV 55 C 3V9	3.7	4.1	85	5	600	1	-7	-3	2	40	1	95
P BZV 55 C 4V3	4.0	4.6	75	5	600	1	-4	-1	1	20	1	90
P BZV 55 C 4V7	4.4	5.0	60	5	600	1	-3	1	0.5	10	1	85
P BZV 55 C 5V1	4.8	5.4	35	5	550	1	-2	5	0.1	2	1	80
P BZV 55 C 5V6	5.2	6.0	25	5	450	1	-1	6	0.1	2	1	70
P BZV 55 C 6V2	5.8	6.6	10	5	200	1	0	7	0.1	2	2	64
P BZV 55 C 6V8	6.4	7.2	8	5	150	1	1	8	0.1	2	3	58
P BZV 55 C 7V5	7.0	7.9	7	5	50	1	1	9	0.1	2	5	53
P BZV 55 C 8V2	7.7	8.7	7	5	50	1	1	9	0.1	2	6.2	47
P BZV 55 C 9V1	8.5	9.6	10	5	50	1	2	10	0.1	2	6.8	43
P BZV 55 C 10	9.4	10.6	15	5	70	1	3	11	0.1	2	7.5	40
P BZV 55 C 11	10.4	11.6	20	5	70	1	3	11	0.1	2	8.2	36
P BZV 55 C 12	11.4	12.7	20	5	90	1	3	11	0.1	2	9.1	32
P BZV 55 C 13	12.4	14.1	26	5	110	1	3	11	0.1	2	10	29
P BZV 55 C 15	13.8	15.6	30	5	110	1	3	11	0.1	2	11	27
BZV 55 C 16	15.3	17.1	40	5	170	1	3	11	0.1	2	12	24
BZV 55 C 18	16.8	19.1	50	5	170	1	3	11	0.1	2	13	21
BZV 55 C 20	18.8	21.2	55	5	220	1	3	11	0.1	2	15	20
BZV 55 C 22	20.8	23.3	55	5	220	1	3	11	0.1	2	16	18
BZV 55 C 24	22.8	25.6	80	5	220	1	4	12	0.1	2	18	16
BZV 55 C 27	25.1	28.9	80	5	220	1	4	12	0.1	2	20	14
BZV 55 C 30	28	32	80	5	220	1	4	12	0.1	2	22	13
BZV 55 C 33	31	35	80	5	220	1	4	12	0.1	2	24	12
BZV 55 C 36	34	38	80	5	220	1	4	12	0.1	2	27	11
BZV 55 C 39	37	41	90	2.5	500	0.5	4	12	0.1	5	30	10
BZV 55 C 43	40	46	90	2.5	600	0.5	4	12	0.1	5	33	9.2
BZV 55 C 47	44	50	110	2.5	700	0.5	4	12	0.1	5	36	8.5
BZV 55 C 51	48	54	125	2.5	700	0.5	4	12	0.1	10	39	7.8
BZV 55 C 56	52	60	135	2.5	1000	0.5	4	12	0.1	10	43	7.0
BZV 55 C 62	58	66	150	2.5	1000	0.5	4	12	0.1	10	47	6.4
BZV 55 C 68	64	72	200	2.5	1000	0.5	4	12	0.1	10	51	5.9
BZV 55 C 75	70	80	250	2.5	1500	0.5	4	12	0.1	10	56	5.3
BZV 55 C 82	77	87	300	2.5	2000	0.5	4	12	0.1	10	62	4.8
BZV 55 C 9*	85	96	450	1	5000	0.1	4	12	0.1	10	68	4.4
BZV 55 C 100	94	106	450	1	5000	0.1	4	12	0.1	10	75	4.0

\* Pulse test :  $20\text{ms} \leq t_p \leq 50\text{ms}$   $\delta < 2\%$

The regulation voltages are defined according to the E24 series.

Voltage > 100V on request.

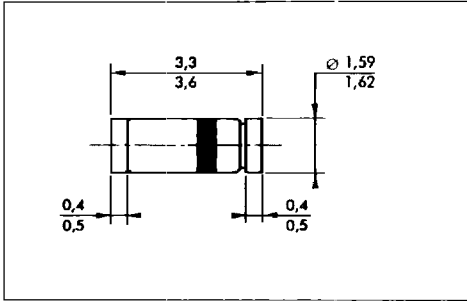
P : Preferred voltages.

Tight tolerances available on preferred voltages : BZV 55 E :  $\pm 3\%$  - BZV 55 B :  $\pm 2\%$ .

Forward voltage drop :  $V_F \leq 1.5\text{V}$  ( $T_{amb} = 25^{\circ}\text{C}$ ,  $I_F = 200\text{mA}$ ).

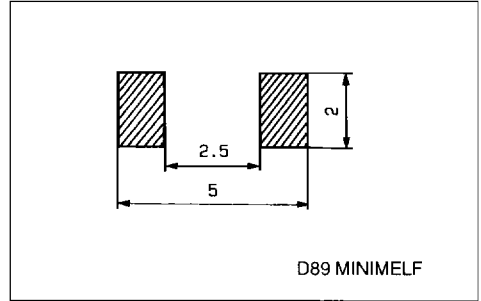
**PACKAGE MECHANICAL DATA**

MINIMELF (Glass)



Marking : ring at cathode end.  
 Weight : 0.05g

FOOT PRINTER DIMENSIONS (millimeters)



D89 MINIMELF