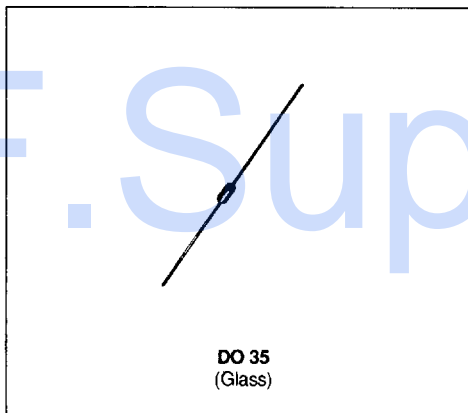


S G S-THOMSON

ZENER DIODES

- VOLTAGE RANGE : 2.4V TO 100V
- DOUBLE SLUG TYPE CONSTRUCTION
- PRO ELECTRON REGISTRATION 2.4V TO 100V
- CECC FOR TYPES : 2.7V TO 62V (LEVEL QUALITY ASSESSMENT : L)

**ABSOLUTE RATINGS** (limiting values)

Symbol	Parameter	Value	Unit
$P_{tot}$	Power Dissipation*	$T_{amb} = 50^{\circ}\text{C}$ 0.5	W
$I_{ZM}$	Continuous Reverse Current	$T_{amb} = 50^{\circ}\text{C}$ See page 2	mA
$T_{stg}$ $T_J$	Storage and Junction Temperature Range	- 65 to 200	$^{\circ}\text{C}$
$T_L$	Maximum Lead Temperature for Soldering during 10s at 4mm from Case	230	$^{\circ}\text{C}$

**THERMAL RESISTANCE**

Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	Junction-ambient*	300	$^{\circ}\text{C}/\text{W}$

\* On infinite heatsink with 4mm lead length

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

Types	$V_{ZT}/I_{ZT}^*$		$r_{ZT}/I_{ZT}$	$I_{ZT}$	$r_{ZK}/I_{ZK}$		$\approx V_Z$		$I_R/V_R$ $T_{amb}$ 25°C 150°C		$V_R$	$I_{ZM}$
	min	max			max	max	max	min	max	max		
	(V)		( $\Omega$ )	(mA)	( $\Omega$ )	(mA)	(mV/°C)		( $\mu\text{A}$ )	( $\mu\text{A}$ )	(V)	(mA)
BZX 79 C 2V4	2.2	2.6	100	5	600	1	-3.5	0	50	100	1	155
Δ BZX 79 C 2V7	2.5	2.9	100	5	600	1	-3.5	0	20	50	1	135
Δ BZX 79 C 3V0	2.8	3.2	95	5	600	1	-3.5	0	10	40	1	125
P Δ BZX 79 C 3V3	3.1	3.5	95	5	600	1	-3.5	0	5	40	1	115
P Δ BZX 79 C 3V6	3.4	3.8	90	5	600	1	-3.5	0	5	40	1	105
P Δ BZX 79 C 3V9	3.7	4.1	90	5	600	1	-3.5	0	3	40	1	95
P Δ BZX 79 C 4V3	4.0	4.6	90	5	600	1	-3.5	0	3	20	1	90
P Δ BZX 79 C 4V7	4.4	5.0	80	5	500	1	-3.5	+0.2	3	10	2	85
P Δ BZX 79 C 5V1	4.8	5.4	60	5	480	1	-2.7	+1.2	2	10	2	80
P Δ BZX 79 C 5V6	5.2	6.0	40	5	400	1	-2.0	+2.5	1	10	2	70
P Δ BZX 79 C 6V2	5.8	6.6	10	5	150	1	0.4	3.7	3	10	4	64
P Δ BZX 79 C 6V8	6.4	7.2	15	5	80	1	1.2	4.5	2	5	4	58
P Δ BZX 79 C 7V5	7.0	7.9	15	5	80	1	2.5	5.3	1	5	5	53
Δ BZX 79 C 8V2	7.7	8.7	15	5	80	1	3.2	6.2	0.7	2	5	47
P Δ BZX 79 C 9V1	8.5	9.6	15	5	100	1	3.8	7.0	0.5	2	6	43
P Δ BZX 79 C 10	9.4	10.6	20	5	150	1	4.5	8.0	0.2	2	7	40
Δ BZX 79 C 11	10.4	11.6	20	5	150	1	5.4	9.0	0.1	2	8	36
P Δ BZX 79 C 12	11.4	12.7	25	5	150	1	6.0	10.0	0.1	2	8	32
Δ BZX 79 C 13	12.4	14.1	30	5	170	1	7.0	11.0	0.1	2	8	29
P Δ BZX 79 C 15	13.8	15.6	30	5	200	1	9.2	13.0	0.05	2	10	27
Δ BZX 79 C 16	15.3	17.1	40	5	200	1	10.4	14.0	0.05	2	11	24
P Δ BZX 79 C 18	16.8	19.1	45	5	225	1	12.4	16.0	0.05	2	13	21
P Δ BZX 79 C 20	18.8	21.2	55	5	225	1	14.4	18.0	0.05	2	14	20
P Δ BZX 79 C 22	20.8	23.3	55	5	250	1	16.4	20.0	0.05	2	15	18
P Δ BZX 79 C 24	22.8	25.6	70	5	250	1	18.4	22.0	0.05	2	17	16
P Δ BZX 79 C 27	25.1	28.9	80	2	300	0.5	21.4	25.3	0.05	2	19	14
Δ BZX 79 C 30	28	32	80	2	300	0.5	24.4	29.4	0.05	2	21	13
P Δ BZX 79 C 33	31	35	80	2	325	0.5	27.4	33.4	0.05	2	23	12
Δ BZX 79 C 36	34	38	90	2	350	0.5	30.4	37.4	0.05	2	25	11
Δ BZX 79 C 39	37	41	130	2	350	0.5	33.4	41.2	0.05	2	27	10
Δ BZX 79 C 43	40	46	150	2	375	0.5	37.6	46.6	0.05	2	29	9.2
Δ BZX 79 C 47	44	50	170	2	375	0.5	42.0	51.8	0.05	2	33	8.5
Δ BZX 79 C 51	48	54	180	2	400	0.5	46.6	57.2	0.05	2	36	7.8
Δ BZX 79 C 56	52	60	200	2	425	0.5	52.2	63.8	0.05	2	39	7.0
Δ BZX 79 C 62	58	66	215	2	450	0.5	58.8	71.6	0.05	2	43	6.4
BZX 79 C 68	64	72	240	2	475	0.5	65.6	79.8	0.05	2	48	5.9
BZX 79 C 75	70	79	255	2	500	0.5	73.4	88.6	0.05	2	52	5.3
BZX 79 C 82	77	87	280	2	525	0.5	80.4	97.6	0.05	2	62	4.9
BZX 79 C 91	85	96	300	2	550	0.5	89.4	109.2	0.05	2	69	4.4
BZX 79 C 100	94	106	500	2	600	0.5	99	121	0.05	2	76	4

\* Pulse test  $t_p \leq 300\mu\text{s}$   $\delta < 2\%$ 

Δ Devices under CCG/CECC.

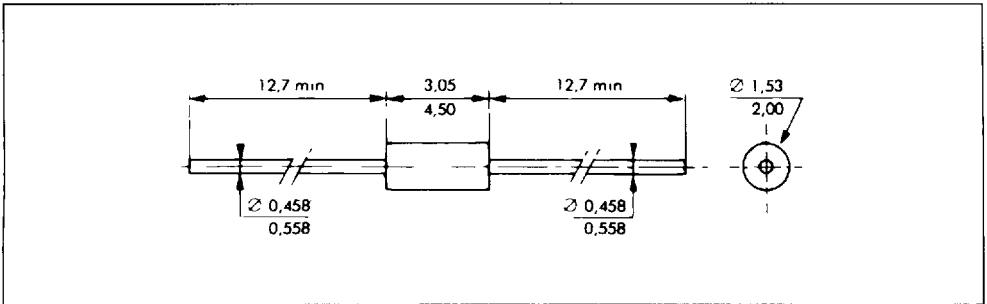
P Preferred voltages

The regulation voltages are defined according to the E24 series.

## PACKAGE MECHANICAL DATA

S G S-THOMSON

DO 35 (Glass)



Cooling method by convection and conduction

Marking clear, ring at cathode end

Weight 0.15g