



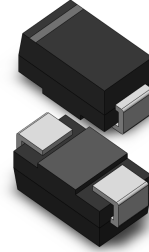
PTZ3.3B - PTZ36B

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE RANGE: 3.3 - 36V
POWER: 1.0Watts

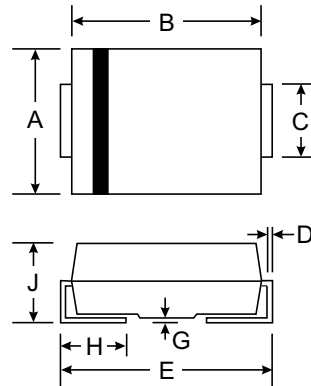
Features

- Complete voltage range 3.3 to 36 volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Standard zener voltage tolerance is $\pm 5\%$.



Mechanical Data

- Case : SMA (DO-214AC) Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead formed for Surface mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings T_A = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 75 °C (Note1)	P _D	1.0	W
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	V
Junction Temperature Range	T _J	- 55 to + 150	°C
Storage Temperature Range	T _s	- 55 to + 150	°C

Note :

(1) P.C.B. Mounted on 0.31x0.31x0.08" (8x8x2mm) copper areas pads.



ELECTRICAL CHARACTERISTICS Rating at 25 °C ambient temperature unless otherwise specified

Type	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	V _Z @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R	I _{ZM}	I _{RM} ⁽²⁾	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApk)
PTZ3.3B	3.3	76.0	10	400	1.0	100	1.0	276	1380
PTZ3.6B	3.6	69.0	10	400	1.0	100	1.0	252	1260
PTZ3.9B	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
PTZ4.3B	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
PTZ4.7B	4.7	53.0	8.0	500	1.0	10	1.0	193	970
PTZ5.1B	5.1	49.0	7.0	550	1.0	10	1.0	178	890
PTZ5.6B	5.6	45.0	5.0	600	1.0	10	2.0	162	810
PTZ6.2B	6.2	41.0	2.0	700	1.0	10	3.0	146	730
PTZ6.8B	6.8	37.0	3.5	700	1.0	50	4.0	133	660
PTZ7.5B	7.5	34.0	4.0	700	0.5	50	5.0	121	605
PTZ8.2B	8.2	31.0	4.5	700	0.5	50	6.0	110	550
PTZ9.1B	9.1	28.0	5.0	700	0.5	50	7.0	100	500
PTZ10B	10	25.0	7.0	700	0.25	50	7.6	91	454
PTZ11B	11	23.0	8.0	700	0.25	50	8.4	83	414
PTZ12B	12	21.0	9.0	700	0.25	5.0	9.1	76	380
PTZ13B	13	19.0	10	700	0.25	5.0	9.9	69	344
PTZ15B	15	17.0	14	700	0.25	5.0	11.4	61	305
PTZ16B	16	15.5	16	700	0.25	5.0	12.2	57	285
PTZ18B	18	14.0	20	750	0.25	5.0	13.7	50	250
PTZ20B	20	12.5	22	750	0.25	5.0	15.2	45	225
PTZ22B	22	11.5	23	750	0.25	5.0	16.7	41	205
PTZ24B	24	10.5	25	750	0.25	5.0	18.2	38	190
PTZ27B	27	9.5	35	750	0.25	5.0	20.6	34	170
PTZ30B	30	8.5	40	1000	0.25	5.0	22.8	30	150
PTZ33B	33	7.5	45	1000	0.25	5.0	25.1	27	135
PTZ36B	36	7.0	50	1000	0.25	5.0	27.4	25	125

Notes :

(1) The type number listed have a standard tolerance on the nominal zener voltage of ± 5%.