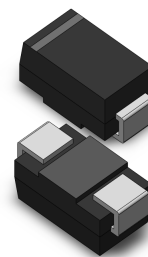


VOLTAGE RANGE: 6.8- 390V
POWER: 1.0Watts

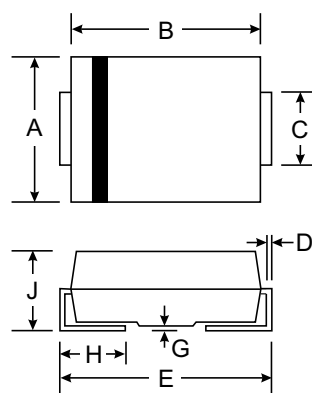


Features

- Complete voltage range 6.8 to 390 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
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.064 gram



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

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 75\text{ °C}$ (Note1)	P_D	1.0	W
Maximum Forward Voltage at $I_F = 200\text{ mA}$	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
	Vz @ IZT	IZT	ZZT @ IZT	ZZK @ IZK	IZK	IR @ VR		IZM
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	
U1ZB6.8	6.8	37.0	3.5	700	1.0	50	4.0	133
U1ZB7.5	7.5	34.0	4.0	700	0.5	50	5.0	121
U1ZB8.2	8.2	31.0	4.5	700	0.5	50	6.0	110
U1ZB9.1	9.1	28.0	5.0	700	0.5	50	7.0	100
U1ZB10	10	25.0	7.0	700	0.25	50	7.6	91
U1ZB11	11	23.0	8.0	700	0.25	50	8.4	83
U1ZB12	12	21.0	9.0	700	0.25	5.0	9.1	76
U1ZB13	13	19.0	10	700	0.25	5.0	9.9	69
U1ZB15	15	17.0	14	700	0.25	5.0	11.4	61
U1ZB16	16	15.5	16	700	0.25	5.0	12.2	57
U1ZB18	18	14.0	20	750	0.25	5.0	13.7	50
U1ZB20	20	12.5	22	750	0.25	5.0	15.2	45
U1ZB22	22	11.5	23	750	0.25	5.0	16.7	41
U1ZB24	24	10.5	25	750	0.25	5.0	18.2	38
U1ZB27	27	9.5	35	750	0.25	5.0	20.6	34
U1ZB30	30	8.5	40	1000	0.25	5.0	22.8	30
U1ZB33	33	7.5	45	1000	0.25	5.0	25.1	27
U1ZB36	36	7.0	50	1000	0.25	5.0	27.4	25
U1ZB39	39	6.5	60	1000	0.25	5.0	29.7	23
U1ZB43	43	6.0	70	1500	0.25	5.0	32.7	22
U1ZB47	47	5.5	80	1500	0.25	5.0	35.8	19
U1ZB51	51	5.0	95	1500	0.25	5.0	38.8	18
U1ZB56	56	4.5	110	2000	0.25	5.0	42.6	16
U1ZB62	62	4.0	125	2000	0.25	5.0	47.1	14
U1ZB68	68	3.7	150	2000	0.25	5.0	51.7	13
U1ZB75	75	3.3	175	2000	0.25	5.0	56.0	12
U1ZB82	82	3.0	200	3000	0.25	5.0	62.2	11
U1ZB91	91	2.8	250	3000	0.25	5.0	69.2	10
U1ZB100	100	2.5	350	3000	0.25	5.0	76.0	9.0
U1ZB110	110	2.3	450	4000	0.25	5.0	83.6	8.6
U1ZB120	120	2.0	550	4500	0.25	5.0	91.2	7.8
U1ZB130	130	1.9	700	5000	0.25	5.0	98.8	7.0
U1ZB150	150	1.7	1000	6000	0.25	5.0	114.0	6.4
U1ZB160	160	1.6	1100	6500	0.25	5.0	121.6	5.8
U1ZB180	180	1.4	1200	7000	0.25	5.0	136.8	5.2
U1ZB200	200	1.2	1500	8000	0.25	5.0	152.0	4.7
U1ZB240	240	0.93	1800	8500	0.25	5.0	182.4	3.8
U1ZB250	250	0.90	2000	9000	0.25	5.0	190	3.6
U1ZB270	270	0.82	2100	9000	0.25	5.0	205	3.3
U1ZB300	300	0.75	2300	9500	0.25	5.0	228	3.0
U1ZB330	330	0.70	2500	9500	0.25	5.0	250	2.8
U1ZB380	380	0.60	2700	9500	0.25	5.0	288	2.4
U1ZB390	390	0.55	2800	9500	0.25	5.0	304	2.3

Note :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 10\%$.
 A standard tolerance of $\pm 5\%$ on individual units is also available and is indicated by suffixing "A" to the standard type number.

