

EDCON-COMPONENTS



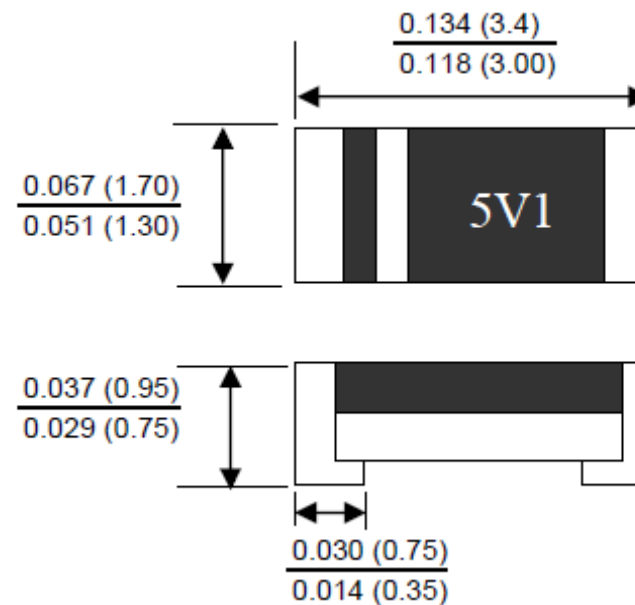
Features

This Diode is also available in other cases style including the Case 1206 with the type designation 55C-Serie
 Weight : approx 10mg
 Marking cathode band

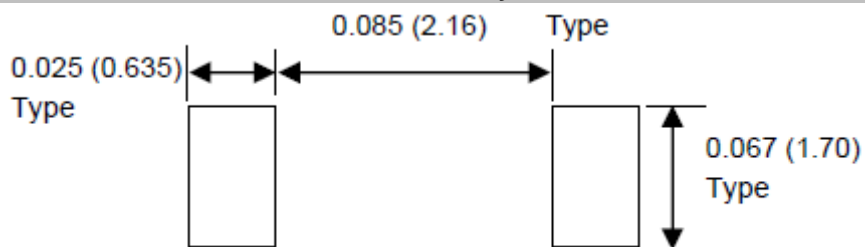
Device has been marking indelibly and legibly as follow.



Dimensions



P.C.B. Layout



**SMT Chip Zener Diode 500mW
Case 1206**

Part No.: **D11001**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	05.03.2010	Customer:
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 7		

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Maximum Ratings and electrical Characteristics (Tamb=25°C, unless otherwise specified)

Parameter	Symbol	Value	Unit
Power Dissipation	Ptot	500	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-65 to +175	°C
Thermal Resistance Junction to Ambient Air	Rthja	400	°C/W

Electrical Characteristics

Forward Voltage If=200mA

Symbol	Value	Unit
Vf	1.5	V

Part-Number Tol. (+/-2%)	Marking Code	Nominal Zener Voltage		Nominal Zener Voltage				Nominal Zener Voltage	
		Vz @ Izt		Zzt @ Izt		Zzk @ Izk		Ir @ Vr	
		Min V	Max V	Ω	mA	Ω	mA	μA	V
D11001-2V0	2V0	1,96	2,04	85	5	600	1	100	1
D11001-2V2	2V2	2,16	2,24	85	5	600	1	75	1
D11001-2V4	2V4	2,35	2,45	85	5	600	1	50	1
D11001-2V7	2V7	2,65	2,75	85	5	600	1	10	1
D11001-3V0	3V0	2,94	3,06	85	5	600	1	4	1
D11001-3V3	3V3	3,23	3,37	85	5	600	1	4	1
D11001-3V6	3V6	3,53	3,67	85	5	600	1	2	1
D11001-3V9	3V9	3,92	3,98	85	5	600	1	2	1
D11001-4V3	4V3	4,21	4,39	80	5	600	1	1	1
D11001-4V7	4V7	4,61	4,79	70	5	600	1	0,5	1
D11001-5V1	5V1	5,00	5,20	50	5	550	1	0,1	1
D11001-5V6	5V6	5,49	5,71	30	5	450	1	0,1	1
D11001-6V2	6V2	6,08	6,32	10	5	200	1	0,1	2
D11001-6V8	6V8	6,66	6,94	8	5	150	1	0,1	3
D11001-7V5	7V5	7,35	7,65	7	5	50	1	0,1	5
D11001-8V2	8V2	8,04	8,36	7	5	50	1	0,1	6,1
D11001-9V1	9V1	8,92	9,28	10	5	50	1	0,1	6,8

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Part-Number Tol. (+/-2%)	Marking Code	Nominal Zener Voltage		Nominal Zener Voltage				Nominal Zener Voltage	
		Vz @ Izt		Zzt @ Izt		Zzk @ Izk		Ir @ Vr	
		Min V	Max V	Ω	mA	Ω	mA	μA	V
D11001-10V	10	9,80	10,20	15	5	70	1	0,1	7,5
D11001-11V	11	10,78	11,22	20	5	70	1	0,1	8,2
D11001-12V	12	11,76	12,24	20	5	90	1	0,1	9,0
D11001-13V	13	12,74	13,26	26	5	110	1	0,1	9,7
D11001-15V	15	14,70	15,30	30	5	110	1	0,1	11
D11001-16V	16	15,68	16,32	40	5	170	1	0,1	12
D11001-18V	18	17,64	18,32	50	5	170	1	0,1	14
D11001-20V	20	19,60	20,40	55	5	220	1	0,1	15
D11001-22V	22	21,56	22,44	55	5	220	1	0,1	17
D11001-24V	24	23,52	24,48	80	5	220	1	0,1	18
D11001-27V	27	26,46	27,54	80	5	220	1	0,1	20
D11001-30V	30	29,40	30,60	80	5	220	1	0,1	22
D11001-33V	33	32,34	33,66	80	5	220	1	0,1	24
D11001-36V	36	35,28	36,72	80	5	220	1	0,1	27

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Typical Characteristics Curve (Tamb=25°C, unless otherwise specified)

Fig1. Thermal Resistance vs. Lead Length

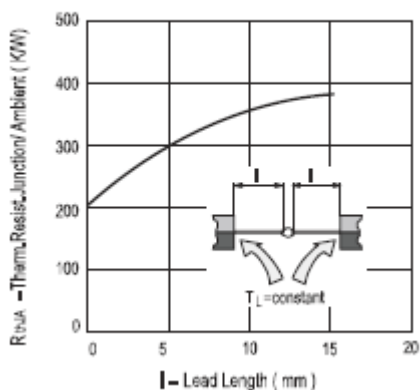


Fig 4. Typical Change of Working Voltage vs. Junction Temperature

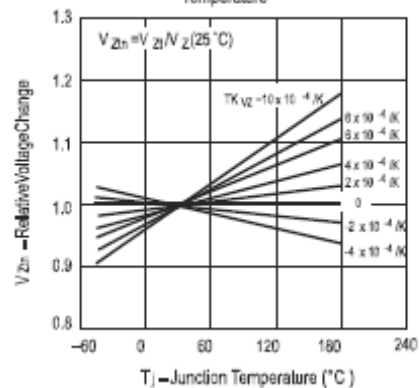


Fig2. Total Power Dissipation vs. Ambient Temperature

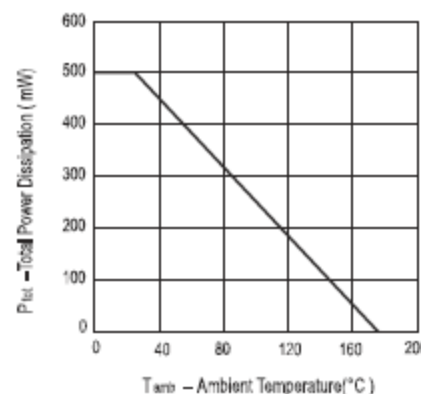


Fig5. Temperature Coefficient of Vz vs. Z-Voltage

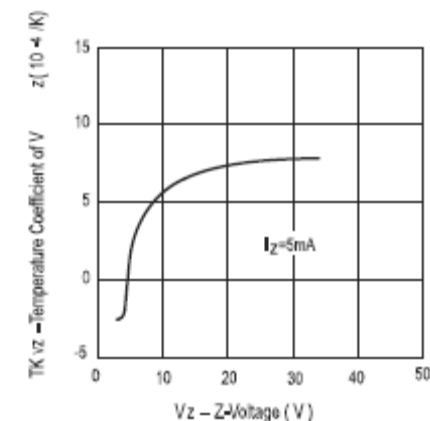


Fig3. Typical Change of Working Voltage under Operating Conditions at Tamb=25°C

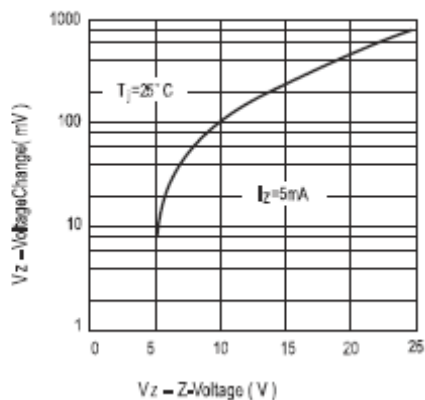
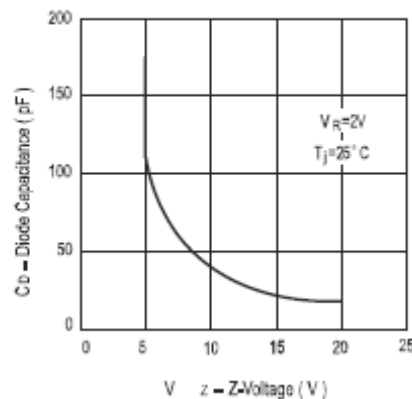


Fig 6. Diode Capacitance vs. Z-Voltage



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Typical Characteristics Curve (Tamb=25°C, unless otherwise specified)

Fig 7. Forward Current vs. Forward Voltage

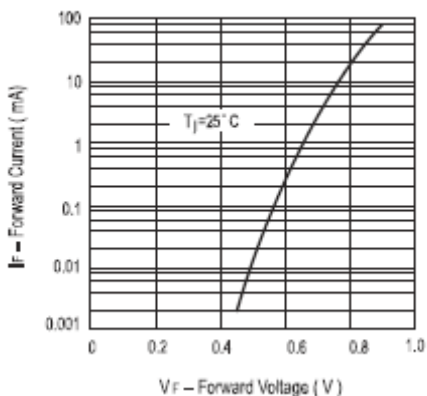


Fig 9. Z-Current vs. Z-Voltage

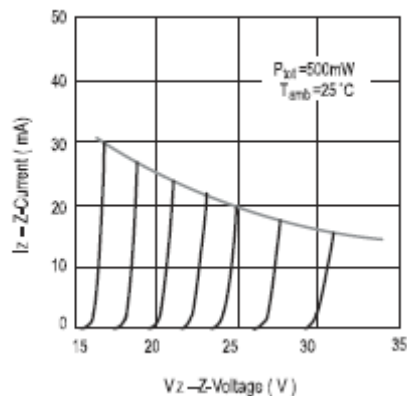


Fig 8. Z-Current vs. Z-Voltage

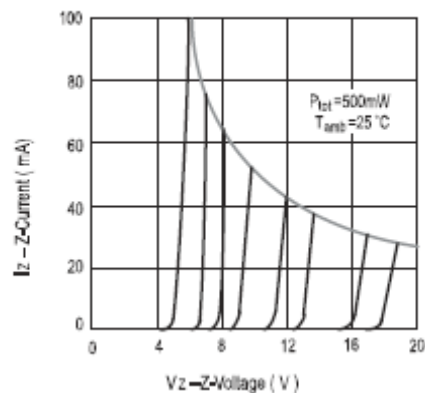


Fig10. Differential Z-Resistance vs. Z-Voltage

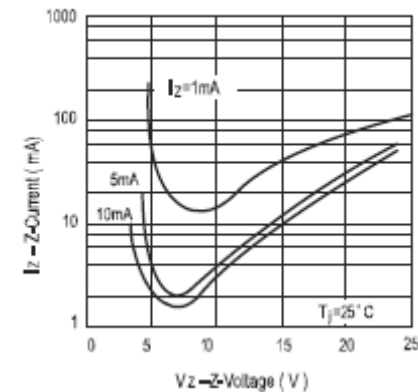
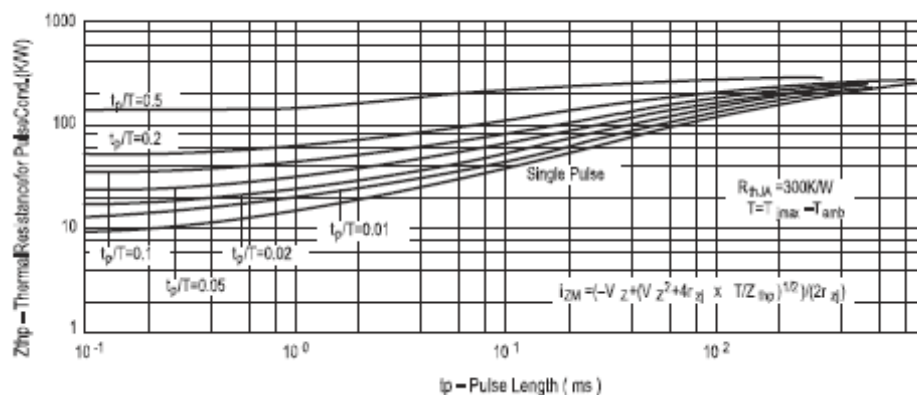


Fig 11. Thermal Response



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Ordering Informations

Serie	Volt	Tolerance	Package							
D11001	2V0	C	TR							

Look Marking Code	C= Tol. 5%	TR= Tape / Reel
	B= Tol. 2%	

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Soldering Profile Curve

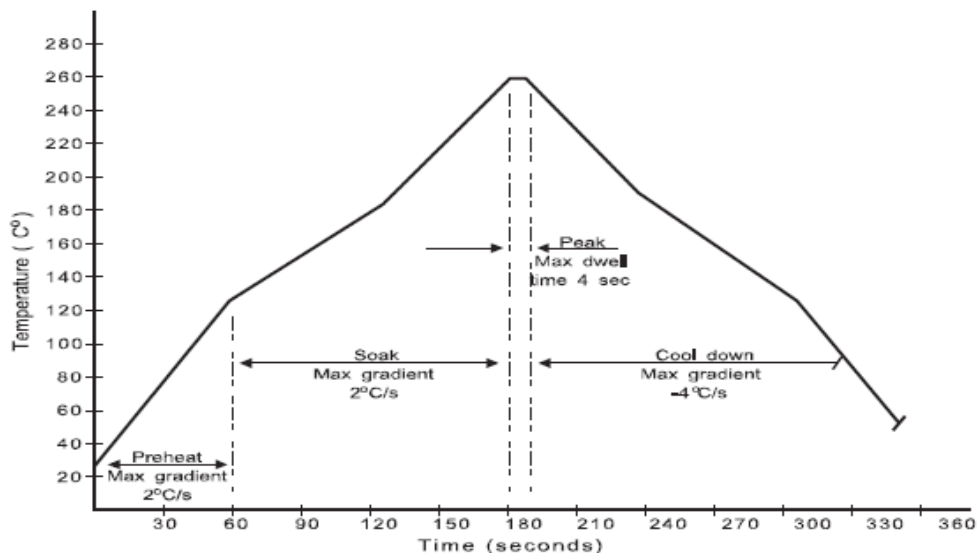


Fig.1 Typical Wave Soldering Thermal Profile

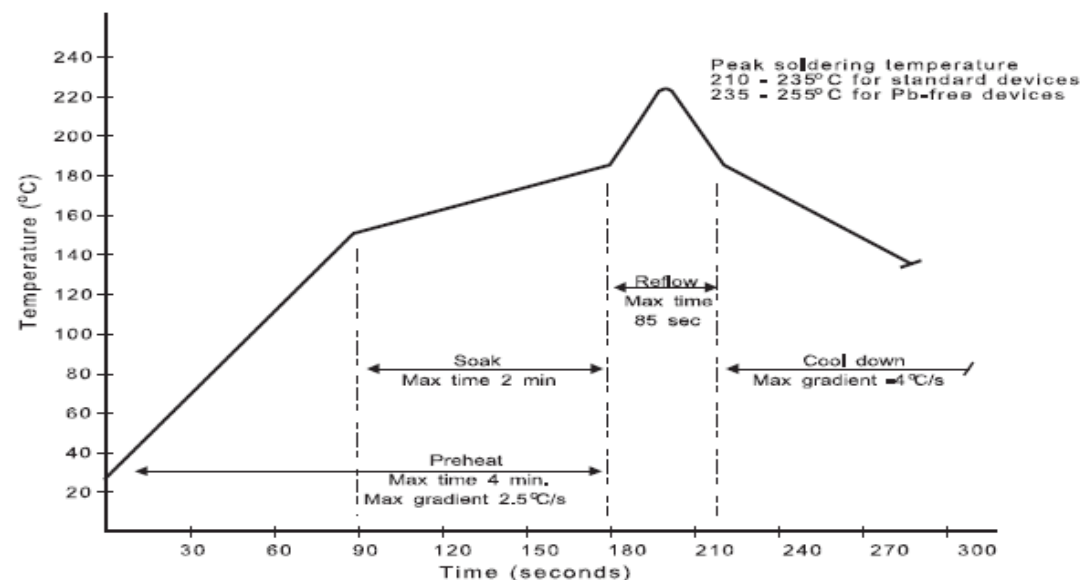


Fig.2 Typical IR Reflow Soldering Thermal Profile

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