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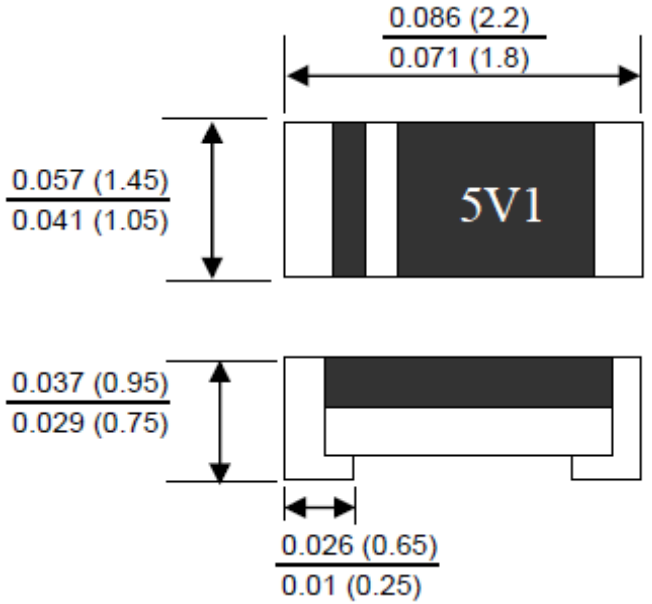
Features

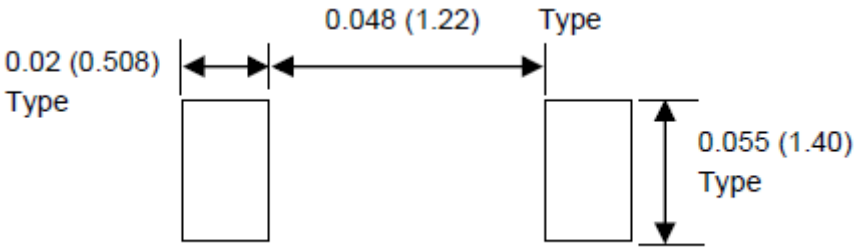
This Diode is also available in other cases style including the Case 0805 with the type disingnation 55C-Serie
Weight : approx 10mg
Marking cathode band

Device has been markinged indelibly and legibly as follow.

Dimensions



P.C.B. Layout



SMT Chip Zener Diode 500mW
Case 0805

Part No.: **D11002**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	05.03.2010
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	Symbol	Value	Unit
Forward Voltage If=200mA	**Vf**	**1.5**	**V**

Part-Number Tol. (+/-2%)	Marking Code	Nominal Zener Voltage Vz @ Izt		Nominal Zener Voltage Zzt @ Izt		Nominal Zener Voltage Zzk @ Izk		Nominal Zener Voltage Ir @ Vr	
		Min V	Max V	Ω	mA	Ω	mA	µA	V
D11002-2V0	2V0	1,96	2,04	85	5	600	1	100	1
D11002-2V2	2V2	2,16	2,24	85	5	600	1	75	1
D11002-2V4	2V4	2,35	2,45	85	5	600	1	50	1
D11002-2V7	2V7	2,65	2,75	85	5	600	1	10	1
D11002-3V0	3V0	2,94	3,06	85	5	600	1	4	1
D11002-3V3	3V3	3,23	3,37	85	5	600	1	4	1
D11002-3V6	3V6	3,53	3,67	85	5	600	1	2	1
D11002-3V9	3V9	3,92	3,98	85	5	600	1	2	1
D11002-4V3	4V3	4,21	4,39	80	5	600	1	1	1
D11002-4V7	4V7	4,61	4,79	70	5	600	1	0,5	1
D11002-5V1	5V1	5,00	5,20	50	5	550	1	0,1	1
D11002-5V6	5V6	5,49	5,71	30	5	450	1	0,1	1
D11002-6V2	6V2	6,08	6,32	10	5	200	1	0,1	2
D11002-6V8	6V8	6,66	6,94	8	5	150	1	0,1	3
D11002-7V5	7V5	7,35	7,65	7	5	50	1	0,1	5
D11002-8V2	8V2	8,04	8,36	7	5	50	1	0,1	6,1
D11002-9V1	9V1	8,92	9,28	10	5	50	1	0,1	6,8

SMT Chip Zener Diode 500mW
Case 0805

Part No.: **D11002**

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Part-Number Tol. (+/-2%)	Marking Code	Nominal Zener Voltage Vz @ Izt		Nominal Zener Voltage Zzt @ Izt		Nominal Zener Voltage Zzk @ Izk		Nominal Zener Voltage Ir @ Vr	
		Min V	Max V	Ω	mA	Ω	mA	µA	V
D11002-10V	10	9,80	10,20	15	5	70	1	0,1	7,5
D11002-11V	11	10,78	11,22	20	5	70	1	0,1	8,2
D11002-12V	12	11,76	12,24	20	5	90	1	0,1	9,0
D11002-13V	13	12,74	13,26	26	5	110	1	0,1	9,7
D11002-15V	15	14,70	15,30	30	5	110	1	0,1	11
D11002-16V	16	15,68	16,32	40	5	170	1	0,1	12
D11002-18V	18	17,64	18,32	50	5	170	1	0,1	14
D11002-20V	20	19,60	20,40	55	5	220	1	0,1	15
D11002-22V	22	21,56	22,44	55	5	220	1	0,1	17
D11002-24V	24	23,52	24,48	80	5	220	1	0,1	18
D11002-27V	27	26,46	27,54	80	5	220	1	0,1	20
D11002-30V	30	29,40	30,60	80	5	220	1	0,1	22
D11002-33V	33	32,34	33,66	80	5	220	1	0,1	24
D11002-36V	36	35,28	36,72	80	5	220	1	0,1	27

SMT Chip Zener Diode 500mW
Case 0805

Part No.: **D11002**

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

Fig1. Thermal Resistance vs. Lead Length

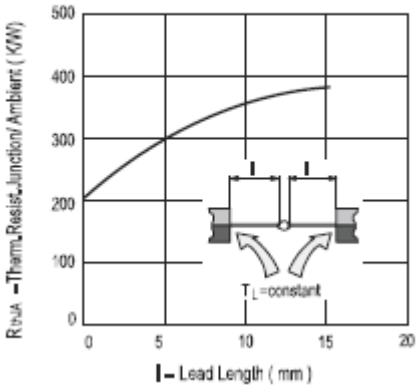


Fig 4. Typical Change of Working Voltage vs. Junction Temperature

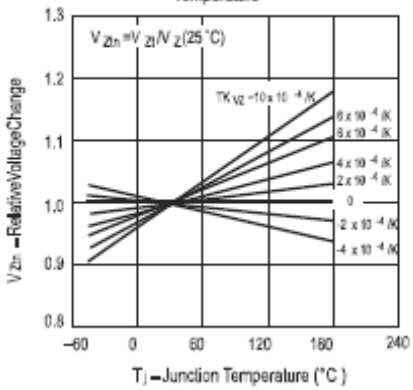


Fig2. Total Power Dissipation vs. Ambient Temperature

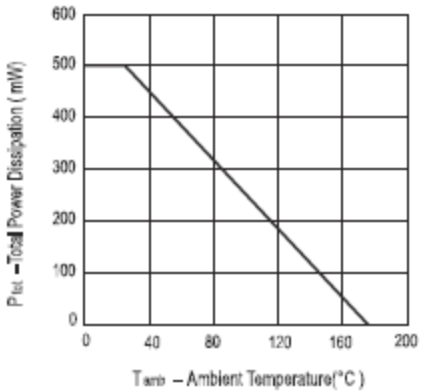


Fig5. Temperature Coefficient of Vz vs. Z-Voltage

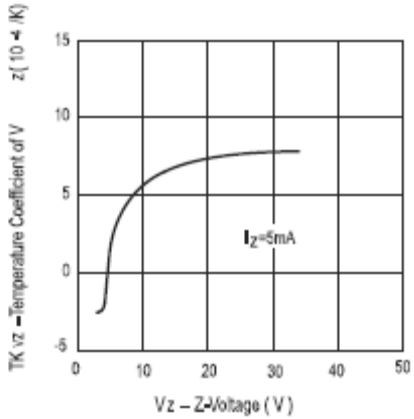


Fig3. Typical Change of Working Voltage under Operating Conditions at Tamb=25°C

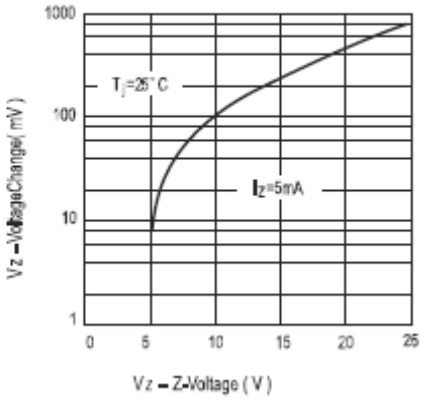
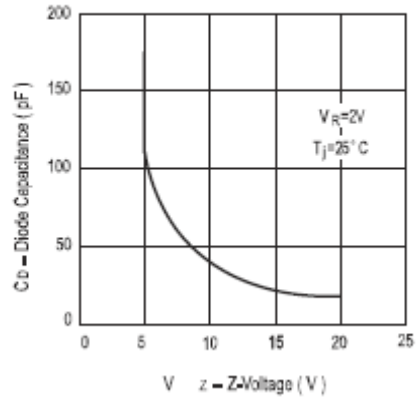


Fig 6. Diode Capacitance vs. Z-Voltage



SMT Chip Zener Diode 500mW
Case 0805

Part No.: **D11002**

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

Fig 7. Forward Current vs. Forward Voltage

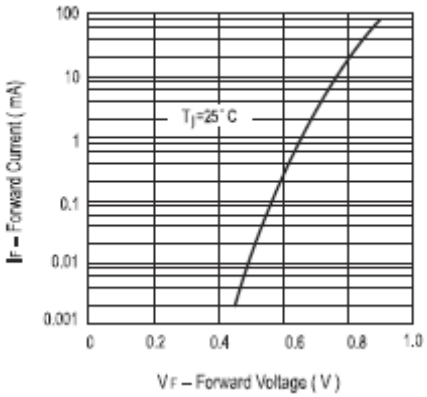


Fig 9. Z-Current vs. Z-Voltage

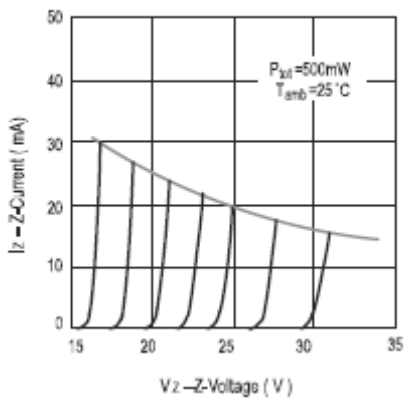


Fig 8. Z-Current vs. Z-Voltage

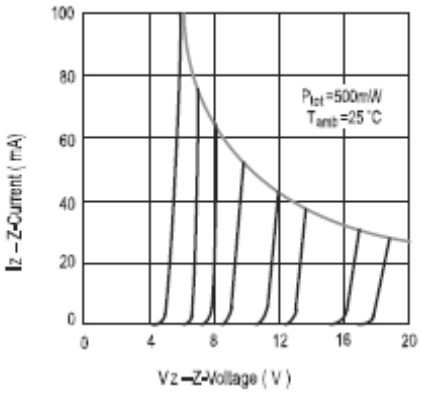


Fig10. Differential Z-Resistance vs. Z-Voltage

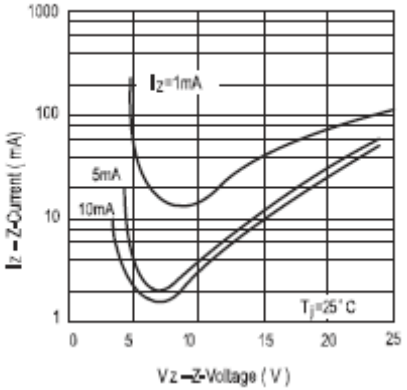
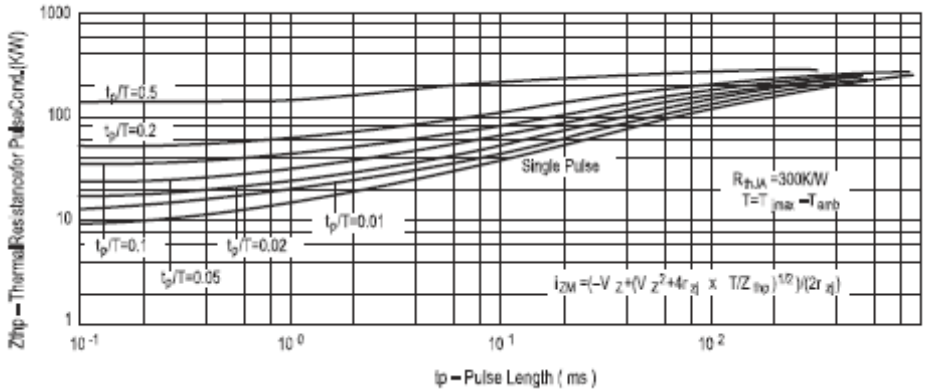


Fig 11. Thermal Response



SMT Chip Zener Diode 500mW
Case 0805

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Ordering Informations

Serie	Volt	Tolerance	Package							
D11002	**2V0**	**C**	**TR**							

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

SMT Chip Zener Diode 500mW
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Soldering Profile Curve

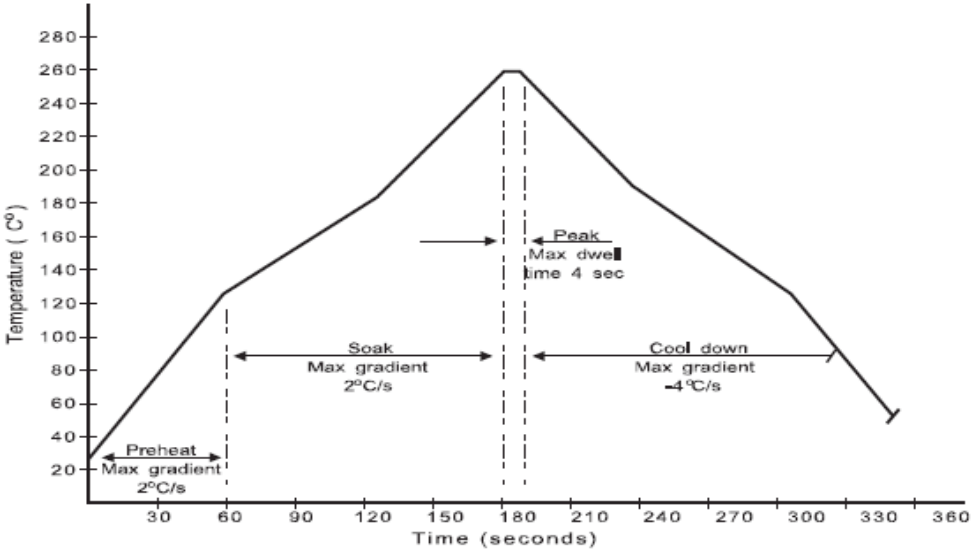

Fig.1 Typical Wave Soldering Thermal Profile

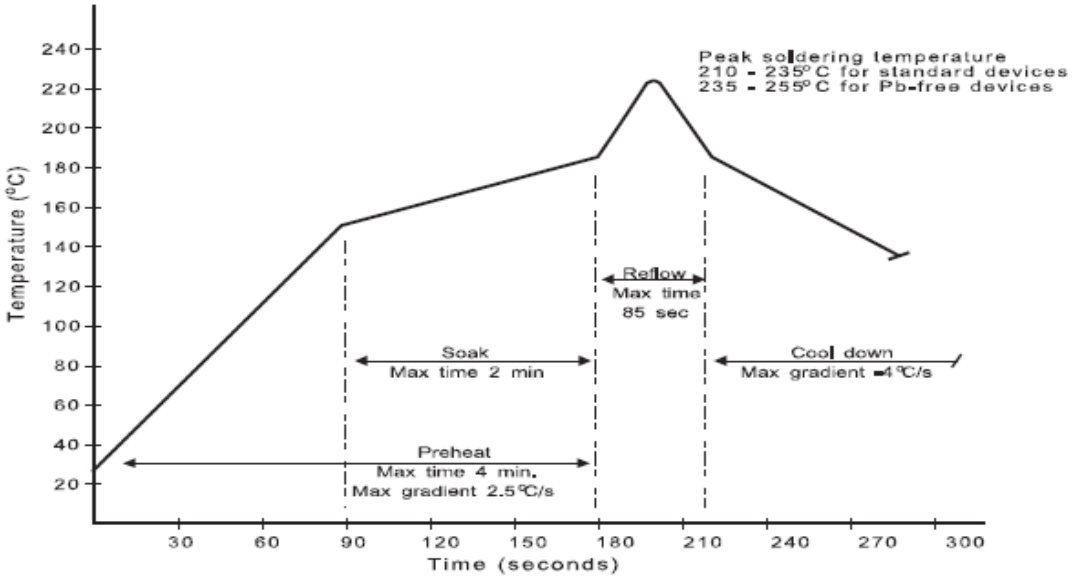

Fig.2 Typical IR Reflow Soldering Thermal Profile

SMT Chip Zener Diode 500mW
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Part No.: **D11002**

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