

ZENER DIODES

BZG03C--SERIES

FEATURES

- High reliability
- Voltage range 10 V to 270 V
- Fits onto 5 mm SMD footpads
- Wave and reflow solderable Glass passivated junction



Lead-free

MECHANICAL DATA

- Case: JEDEC DO-214AC(SMA)
- Terminals: Solderable per MILSTD-202,Method 208
- Polarity: Color band denotes cathodes end
- Weight: 0.002 ounces, 0.064 grams
- Mounting position: any

Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power dissipation at T _p =100°C	P _{tot}	3.0	W
Forward voltage @I _F =500mA	V _F	1.2	V
Maximum thermal resistance junction to ambient	R _{θJA}	150	K/W
Peak reverse power dissipation(non-repetitive) tp=100 μs square wave	P _{ZSM}	600	W
Junction temperature	T _J	-65 -- +150	°C
Storage temperature range	T _{STG}	-65 -- +150	°C

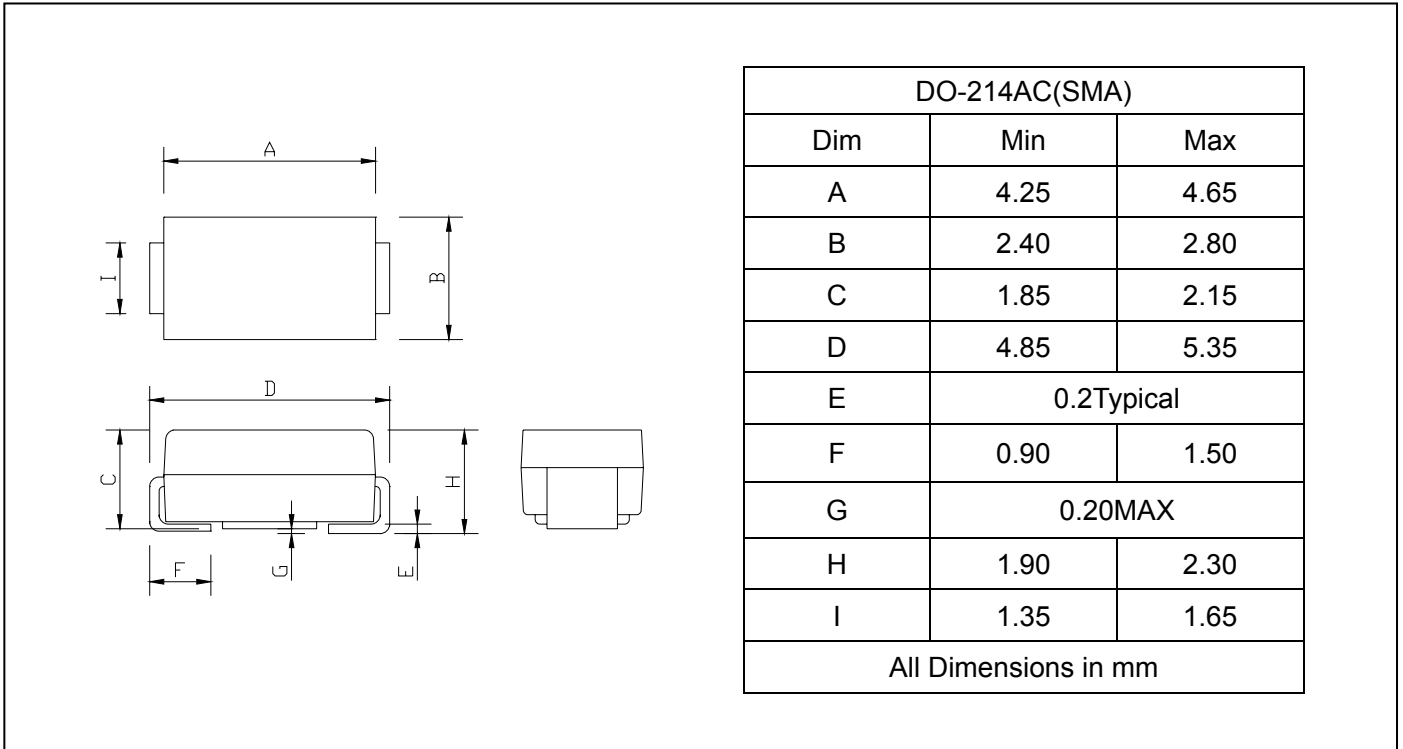
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ELECTRICAL CHARACTERISTICS @ $T_A=25^{\circ}\text{C}$

Type	Device marking code	Zener Voltage Range(Note 1)				Leakage Current	
		$V_Z(\text{V})$			@ I_{ZT}	$I_R @ V_R$	
		Min	Nom	Max	mA	μA	V
BZG03C10	G10	9.4	10	10.6	50	10	7.5
BZG03C11	G11	10.4	11	11.6	50	4.0	8.2
BZG03C12	G12	11.4	12	12.7	50	3.0	9.1
BZG03C13	G13	12.4	13	14.1	50	2.0	10
BZG03C15	G15	13.8	15	15.6	50	1.0	11
BZG03C16	G16	15.3	16	17.1	25	1.0	12
BZG03C18	G18	16.8	18	19.1	25	1.0	13
BZG03C20	G20	18.8	20	21.2	25	1.0	15
BZG03C22	G22	20.8	22	23.3	25	1.0	16
BZG03C24	G24	22.8	24	25.6	25	1.0	18
BZG03C27	G27	25.1	27	28.9	25	1.0	20
BZG03C30	G30	28	30	32	25	1.0	22
BZG03C33	G33	31	33	35	25	1.0	24
BZG03C36	G36	34	36	38	10	1.0	27
BZG03C39	G39	37	39	41	10	1.0	30
BZG03C43	G43	40	43	46	10	1.0	33
BZG03C47	G47	44	47	50	10	1.0	36
BZG03C51	G51	48	51	54	10	1.0	39
BZG03C56	G56	52	56	60	10	1.0	43
BZG03C62	G62	58	62	66	10	1.0	47
BZG03C68	G68	64	68	72	10	1.0	51
BZG03C75	G75	70	75	79	10	1.0	56
BZG03C82	G82	77	82	87	10	1.0	62
BZG03C91	G91	85	91	96	5.0	1.0	68
BZG03C100	G100	94	100	106	5.0	1.0	75
BZG03C110	G10	104	110	116	5.0	1.0	82
BZG03C120	G120	114	120	127	5.0	1.0	91
BZG03C130	G30	124	130	141	5.0	1.0	100
BZG03C150	G150	138	150	156	5.0	1.0	110
BZG03C160	G160	158	160	171	5.0	1.0	120
BZG03C180	G180	168	180	191	5.0	1.0	130
BZG03C200	G200	188	200	212	5.0	1.0	150
BZG03C220	G220	208	220	233	2.0	1.0	160
BZG03C240	G240	228	240	256	2.0	1.0	180
BZG03C270	G270	251	270	289	2.0	1.0	200

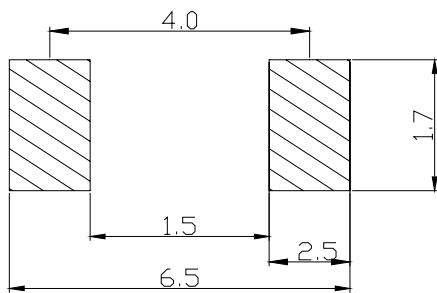
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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BZG03C---SERIES	DO-214AC(SMA)	5000/Tape&Reel

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FIG.1 – TYPICAL FORWARD CHARACTERISTIC

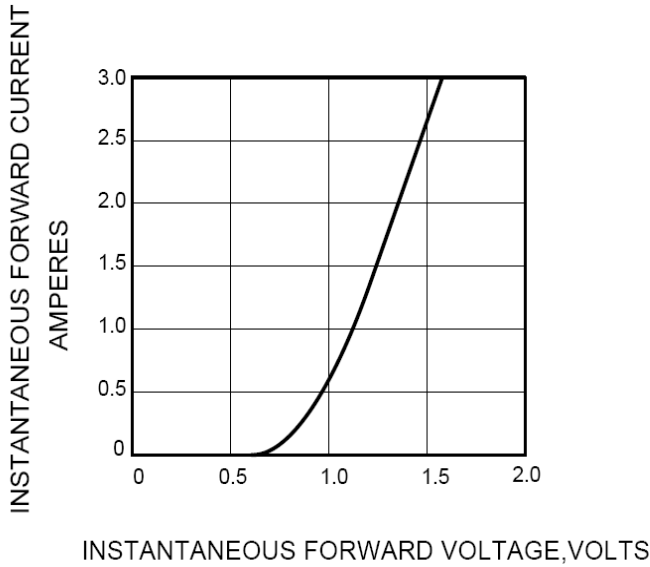


FIG.2 – NON REPETITIVE SURGE POWER DISSIPATION VS.PULSE LENGTH

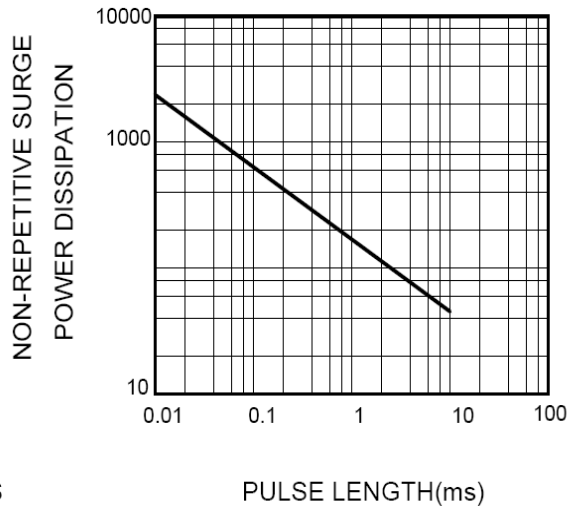


FIG.3 – THERMAL RESPONSE

