



**General
Semiconductor
Industries, Inc.**



**ZENER DIODES
5 WATTS
10V THRU 75V
SURFACE MOUNT
SMZG & SMZJ
Series**

FEATURES

- Zener Voltages 10V - 75V
- JEDEC Registered Package Outline for Surface Mounting
- Maximum Limits Guaranteed on Four Parameters

DESCRIPTION

This series of surface mount zener diodes is fully specified for use in power regulator applications. These devices are useful in situations where large surge currents are expected.

CASES



Modified J-Bend
Leads (C-Bend)
DO-214AA



Gull-Wing Leads
DO-215AA

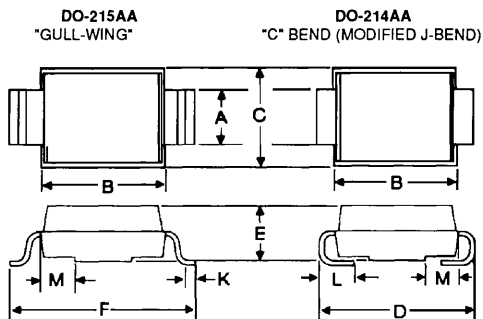
MAXIMUM RATINGS

- DC Power Dissipation (P_D): 5 watts
- Derated above 75°C: 65 mW / °C
- Junction and Storage Temperature (T_J, T_{stg}): -55°C to +150°C

MECHANICAL CHARACTERISTICS

- Molded Surface Mountable Case
- Gull-Wing or Modified J-Bend Leads
- Cathode (Positive end) Marked with Polarity Band
- Body Marked with Type Code

CASE OUTLINE



DIMENSIONS IN INCHES

	A	B	C	D	E	F	K	L	M
MIN	.077	.160	.130	.205	.075	.235	.015	.030	.038
MAX	.083	.180	.155	.220	.095	.255	.030	.060	.058

DIMENSIONS IN MILLIMETERS

	A	B	C	D	E	F	K	L	M
MIN	1.96	4.06	3.30	5.21	1.91	5.97	0.38	0.76	0.97
MAX	2.10	4.57	3.81	5.59	2.41	6.48	0.76	1.52	1.47

Typical Standoff Height: 0.004" - 0.008" (0.1mm - 0.2mm)

Components Packaging: Standard 12mm tape.

RECOMMENDED PAD SIZE

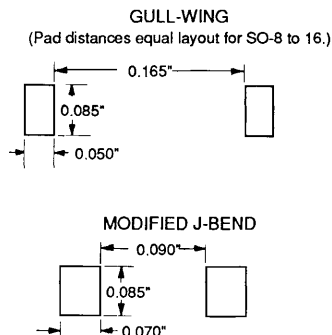
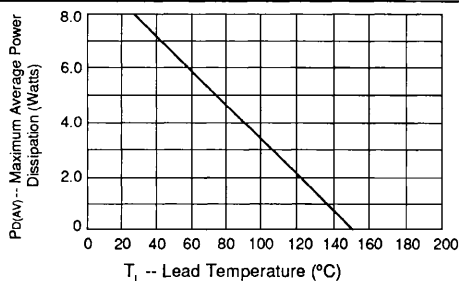


FIGURE 1 -- Power or Current Derating



ELECTRICAL CHARACTERISTICS @ 25°C										
GENERAL SEMICONDUCTOR PART NUMBER *		DEVICE MARKING CODE	NOMINAL ZENER VOLTAGE	TEST CURRENT	MAX. ZENER IMPEDANCE		MAX. REVERSE LEAKAGE CURRENT		MAX. ZENER CURRENT	
GULL-WING	MODIFIED J-BEND		$V_Z @ I_{ZT}$	I_{ZT}	$Z_{Z1} @ I_{Z1}$	$Z_{ZK} @ I_{ZK} = 1\text{ mA}$	I_R μA	$@$ V_R Volts	I_{ZM} mA dc	
			Volts	mA	Ohms	Ohms	A-Suffix	B-Suffix		
SMZG5347A,B	SMZJ5347A,B	347A,B	10	125	2.5	600	100	7.2	7.6	475
SMZG5348A,B	SMZJ5348A,B	348A,B	11	125	3	400	10	8.0	8.4	430
SMZG5349A,B	SMZJ5349A,B	349A,B	12	100	3	300	5	8.6	9.1	395
SMZG5350A,B	SMZJ5350A,B	350A,B	13	100	3	200	5	9.4	9.9	365
SMZG5351A,B	SMZJ5351A,B	351A,B	14	100	3	100	5	10.1	10.6	340
SMZG5352A,B	SMZJ5352A,B	352A,B	15	75	3	100	5	10.8	11.5	315
SMZG5353A,B	SMZJ5353A,B	353A,B	16	75	3	100	5	11.5	12.2	295
SMZG5354A,B	SMZJ5354A,B	354A,B	17	70	3	100	5	12.2	12.9	280
SMZG5355A,B	SMZJ5355A,B	355A,B	18	65	3	100	5	13.0	13.7	265
SMZG5356A,B	SMZJ5356A,B	356A,B	19	65	3	100	5	13.7	14.4	250
SMZG5357A,B	SMZJ5357A,B	357A,B	20	65	3	100	5	14.4	15.2	237
SMZG5358A,B	SMZJ5358A,B	358A,B	22	50	3.5	100	5	15.8	16.7	216
SMZG5359A,B	SMZJ5359A,B	359A,B	24	50	3.5	100	5	17.3	18.2	198
SMZG5360A,B	SMZJ5360A,B	360A,B	25	50	4	110	5	18.0	19.0	190
SMZG5361A,B	SMZJ5361A,B	361A,B	27	50	5	120	5	19.4	20.6	176
SMZG5362A,B	SMZJ5362A,B	362A,B	28	50	6	130	5	20.1	21.2	170
SMZG5363A,B	SMZJ5363A,B	363A,B	30	40	8	140	5	21.6	22.8	158
SMZG5364A,B	SMZJ5364A,B	364A,B	33	40	10	150	5	23.8	25.1	144
SMZG5365A,B	SMZJ5365A,B	365A,B	36	30	11	160	5	25.9	27.4	132
SMZG5366A,B	SMZJ5366A,B	366A,B	39	30	14	170	5	28.1	29.7	122
SMZG5367A,B	SMZJ5367A,B	367A,B	43	30	20	190	5	31.0	32.7	110
SMZG5368A,B	SMZJ5368A,B	368A,B	47	25	25	210	5	33.8	35.8	100
SMZG5369A,B	SMZJ5369A,B	369A,B	51	25	27	230	5	36.7	38.8	93
SMZG5370A,B	SMZJ5370A,B	370A,B	56	20	35	280	5	40.3	42.6	86
SMZG5371A,B	SMZJ5371A,B	371A,B	60	20	40	350	5	43.0	45.5	79
SMZG5372A,B	SMZJ5372A,B	372A,B	62	20	42	400	5	44.6	47.1	76
SMZG5373A,B	SMZJ5373A,B	373A,B	68	20	44	500	5	49.0	51.7	70
SMZG5374A,B	SMZJ5374A,B	374A,B	75	20	45	620	5	54.0	56.0	63

*"A" denotes 10% device tolerance, "B" denotes 5% tolerance.