




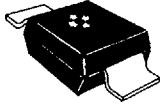
**General  
Semiconductor  
Industries, Inc.**

T-62-11

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

FEATURES
<ul style="list-style-type: none"> <li>• Zener Voltages 10V - 75V</li> <li>• JEDEC Registered Package Outline for Surface Mounting</li> <li>• Maximum Limits Guaranteed on Four Parameters</li> </ul>

DESCRIPTION
<p>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.</p>

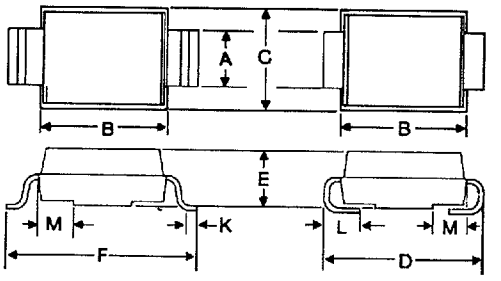
CASES
 <p>Modified J-Bend Leads (C-Bend) DO-214AA</p>
 <p>Gull-Wing Leads DO-215AA</p>

MAXIMUM RATINGS
<ul style="list-style-type: none"> <li>• DC Power Dissipation (<math>P_D</math>): 5 watts</li> <li>• Derated above 75°C: 65 mW / °C</li> <li>• Junction and Storage Temperature (<math>T_J, T_{stg}</math>): -55°C to +150°C</li> </ul>

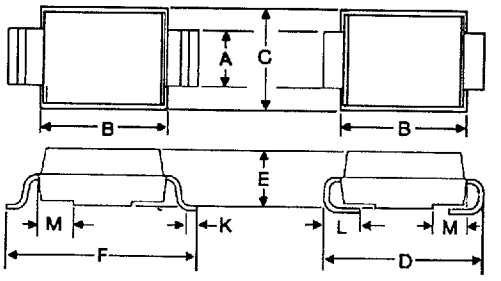
MECHANICAL CHARACTERISTICS
<ul style="list-style-type: none"> <li>• Molded Surface Mountable Case</li> <li>• Gull-Wing or Modified J-Bend Leads</li> <li>• Cathode (Positive end) Marked with Polarity Band</li> <li>• Body Marked with Type Code</li> </ul>

**CASE OUTLINE**

DO-215AA  
"GULL-WING"



DO-214AA  
"C" BEND (MODIFIED J-BEND)



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

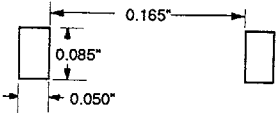
DIMENSIONS IN MILLIMETERS									
	A	B	C	D	E	F	K	L	M
MIN	1.96	4.06	3.30	5.21	1.91	5.97	0.38	0.76	0.97
MAX	2.10	4.57	3.81	5.59	2.41	6.48	0.76	1.52	1.47

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

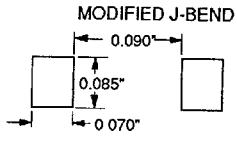
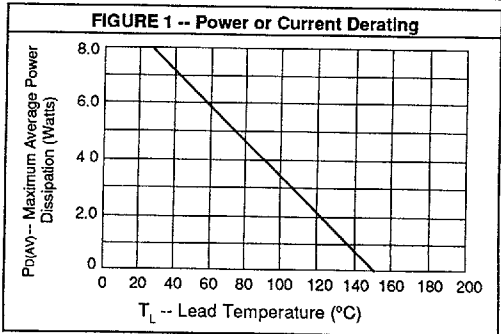
**Components Packaging:** Standard 12mm tape.

**RECOMMENDED PAD SIZE**

**GULL-WING**  
(Pad distances equal layout for SO-8 to 16.)



**MODIFIED J-BEND**

ELECTRICAL CHARACTERISTICS @ 25°C

GENERAL SEMICONDUCTOR PART NUMBER *		DEVICE MARKING CODE	NOMINAL ZENER VOLTAGE $V_Z @ I_{ZT}$	TEST CURRENT $I_{ZT}$	MAX. ZENER IMPEDANCE		MAX. REVERSE LEAKAGE CURRENT			MAX. ZENER CURRENT $I_{ZM}$	
GULL-WING	MODIFIED J-BEND				$Z_{Z1} @ I_{Z1}$	$Z_{Zk} @ I_{Zk} = 1 \text{ mA}$	$I_R$ $\mu\text{A}$	@ $V_R$ Volts			$I_{ZM}$ mA dc
								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.

TRANSIENT VOLTAGE SUPPRESSORS

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