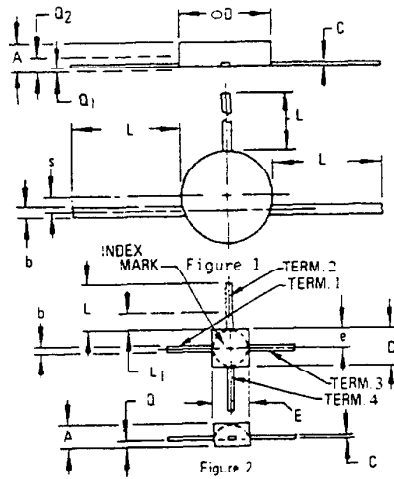


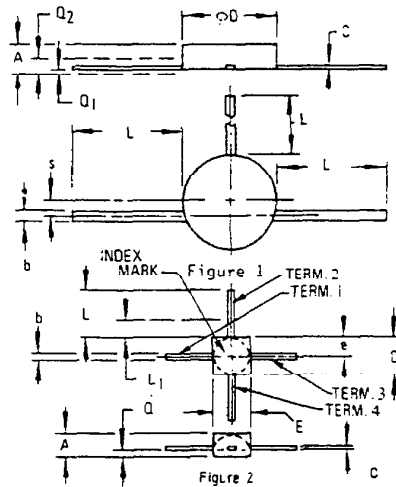
# NOTES :

1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING & TOLERANCING PER ANSI Y14.5, 1973.
3. LEADS SHALL EMERGE FROM THE BODY WITHIN THE LIMITS OF  $s$  AND  $Q_2$ .
4. CONTOUR OF BODY OPTIONAL WITHIN  $\varnothing D$  AND  $A$ .
5. LEADS SHALL EMERGE FROM THE BODY WITHIN THE LIMITS OF  $D$  AND  $E$  DIMENSIONS.
6. CONFIGURATION OF PACKAGE OPTIONAL WITHIN ZONE DEFINED BY  $A$ ,  $D$ , AND  $E$  DIMENSIONS.
7. LEAD DIMENSIONS NOT CONTROLLED IN THIS ZONE TO ALLOW FOR BODY AND LEAD FINISH IRREGULARITIES.
8. INDEX TO BE VISIBLE FROM TOP.
9. OMISSION OF ONE LEAD OPTIONAL.
10. FIGURE 1 APPLICABLE.
11. FIGURE 2 APPLICABLE.
12. CONTROLLING DIMENSIONS: INCH.



SYMBOL	VARIATIONS (ALL DIMENSIONS SHOWN IN MILLIMETERS)											
	AA		NOTE	AB		NOTE	AC		NOTE	AD		NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	1.02	1.52	4	1.02	1.52	4	1.02	1.65	4	.77	1.57	
b	.39	.71		.39	.71		.508	.711		.21	.48	
C	.077	.127		.077	.127		.077	.127		.077	.177	
ØD	4.58	5.46	4	3.56	4.19	4	4.68	5.71	4	--	--	
D	--	--		--	--		--	--		1.71	2.33	5
D <sub>1</sub>	--	--		--	--		--	--		1.71	2.23	5
e	--	--		--	--		--	--		.39	1.16	
L	6.35	--		6.35	--		6.10	--		2.54	--	
L <sub>1</sub>	--	--		--	--		--	--		--	.88	7
Q	--	--		--	--		--	--		.18	.86	5
Q <sub>1</sub>	--	.25	3	--	.25	3	--	--		--	--	
Q <sub>2</sub>	--	.63	3	--	.63	3	--	--		--	--	
s	.39	.88	3	.39	.88	3	--	.88	3	--	--	
NOTE	1,2,10,12			1,2,10,12			1,2,10,12			1,2,6,8,9,11,12		
REF.	TO-50			TO-51			TO-119			TO-120		
ISSUE	A JUNE 1976			A JUNE 1976			A JUNE 1976			A JUNE 1976		
JEDEC SOLID STATE PRODUCT OUTLINES				TITLE  RADIAL LEAD FAMILY				ISSUE  A	DATE  6/1/76	TO-234		
										VARIATION AA - AD		

# NOTES:



1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING & TOLERANCING PER ANSI Y14.5, 1973.
3. LEADS SHALL EMERGE FROM THE BODY WITHIN THE LIMITS OF S AND Q<sub>2</sub>.
4. CONTOUR OF BODY OPTIONAL WITHIN ØD AND A.
5. LEADS SHALL EMERGE FROM THE BODY WITHIN THE LIMITS OF D AND E DIMENSIONS.
6. CONFIGURATION OF PACKAGE OPTIONAL WITHIN ZONE DEFINED BY A, D, AND E DIMENSIONS.
7. LEAD DIMENSIONS NOT CONTROLLED IN THIS ZONE TO ALLOW FOR BODY AND LEAD FINISH IRREGULARITIES.
8. INDEX TO BE VISIBLE FROM TOP.
9. OMISSION OF ONE LEAD OPTIONAL.
10. FIGURE 1 APPLICABLE.
11. FIGURE 2 APPLICABLE.
12. CONTROLLING DIMENSIONS: INCH.

SYMBOL	VARIATIONS (ALL DIMENSIONS SHOWN IN INCHES)												
	AA		NOTE	AB		NOTE	AC		NOTE	AD		NOTE	
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		
A	.040	.060	4	.040	.060	4	.040	.065	4	.030	.062		
b	.015	.028		.015	.028		.020	.028		.008	.019		
C	.003	.005		.003	.005		.003	.005		.003	.007		
ØD	.180	.215	4	.140	.165	4	.184	.225	4	--	--		
D	--	--		--	--		--	--		.067	.092	5	
D <sub>1</sub>	--	--		--	--		--	--		.067	.088	5	
e	--	--		--	--		--	--		.015	.046		
L	.250	--		.250	--		.240	--		.100	--		
L <sub>1</sub>	--	--		--	--		--	--		--	.035		
Q	--	--		--	--		--	--		.007	.034	5	
Q <sub>1</sub>	--	.010	3	--	.010	3	--	--		--	--		
Q <sub>2</sub>	--	.025	3	--	.025	3	--	--		--	--		
s	.015	.035	3	.015	.035	3	--	.035	3	--	--		
NOTE	1,2,10,12			1,2,10,12			1,2,10,12			1,2,6,8,9,11,12			
REF.	TO-50			TO-51			TO-119			TO-120			
ISSUE	A JUNE 1976			A JUNE 1976			A JUNE 1976			A JUNE 1976			
JEDEC SOLID STATE PRODUCT OUTLINES				TITLE RADIAL LEAD FAMILY				ISSUE A		DATE 6/1/76		TO-234	
												VARIATION AA - AD	