MBD701, MMBD701L, SMMBD701L

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

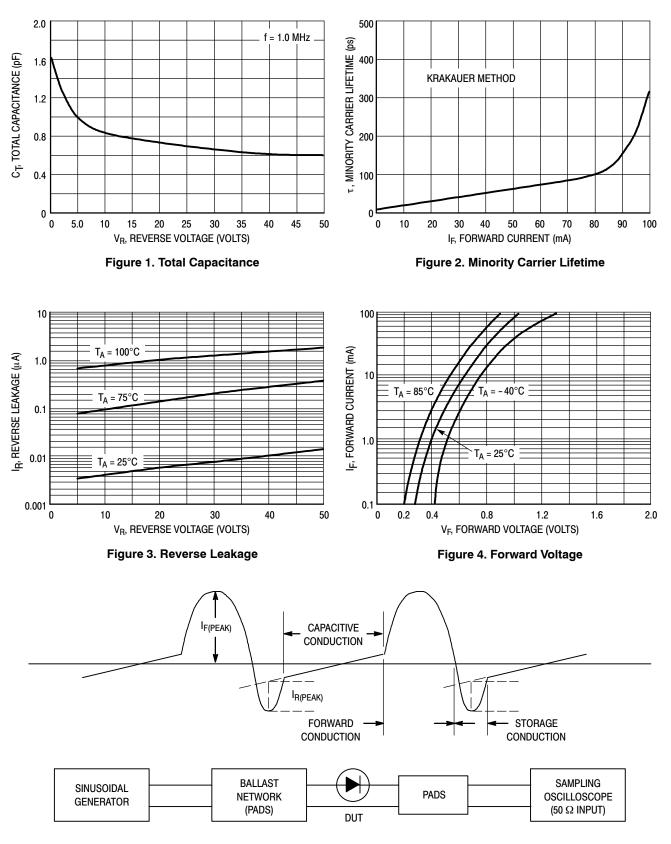
Characteristic	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage ($I_R = 10 \ \mu Adc$)	V _{(BR)R}	70	_	_	V
Total Capacitance $(V_R = 20 \text{ V}, \text{f} = 1.0 \text{ MHz})$ Figure 1	CT	-	0.5	1.0	pF
Reverse Leakage (V _R = 35 V) Figure 3	۱ _R	-	9.0	200	nAdc
Forward Voltage (I _F = 1.0 mAdc) Figure 4	V _F	-	0.42	0.5	Vdc
Forward Voltage (I _F = 10 mAdc) Figure 4	V _F	-	0.7	1.0	Vdc

ORDERING INFORMATION

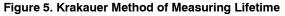
Device	Package	Shipping [†]	
MBD701	TO-92	1,000 Units / Bulk	
MBD701G	TO-92 (Pb-Free)	1,000 Units / Bulk	
MMBD701LT1	SOT-23	3,000 / Tape & Reel	
MMBD701LT1G	SOT-23 (Pb-Free)	3,000 / Tape & Reel	
SMMBD701LT1G	SOT-23 (Pb-Free)	3,000 / Tape & Reel	
MMBD701LT3	SOT-23	10,000 / Tape & Reel	
MMBD701LT3G	SOT-23 (Pb-Free)	10,000 / Tape & Reel	

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MBD701, MMBD701L, SMMBD701L





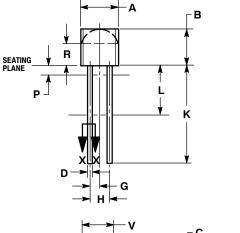


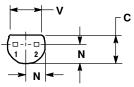
PACKAGE DIMENSIONS

TO-92 (TO-226AC) CASE 182-06 ISSUE L

D

SECTION X-X





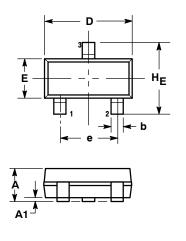
- NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. CONTOUR OF PACKAGE BEYOND ZONE R IS UNCONTROLLED. 4. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

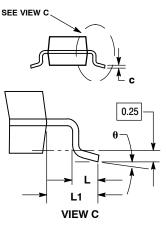
	INC	HES	MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.175	0.205	4.45	5.21	
В	0.170	0.210	4.32	5.33	
С	0.125	0.165	3.18	4.19	
D	0.016	0.021	0.407	0.533	
G	0.050 BSC		1.27 BSC		
Н	0.100 BSC		2.54 BSC		
J	0.014	0.016	0.36	0.41	
K	0.500		12.70		
L	0.250		6.35		
Ν	0.080	0.105	2.03	2.66	
Ρ		0.050		1.27	
R	0.115		2.93		
٧	0.135		3.43		

STYLE 1: PIN 1. ANODE 2. CATHODE

PACKAGE DIMENSIONS

SOT-23 (TO-236) CASE 318-08 ISSUE AP





NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: INCH
- CONTROLLING DIMENSION: INCH.
 MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

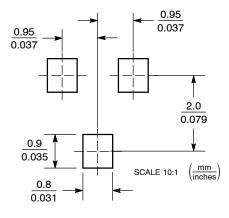
	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.89	1.00	1.11	0.035	0.040	0.044
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.37	0.44	0.50	0.015	0.018	0.020
с	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
е	1.78	1.90	2.04	0.070	0.075	0.081
L	0.10	0.20	0.30	0.004	0.008	0.012
L1	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.40	2.64	0.083	0.094	0.104
θ	0°		10°	0°		10°

STYLE 8:

PIN 1. ANODE 2. NO CONNECTION

3. CATHODE

SOLDERING FOOTPRINT



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