

34C 37974 D
7-35-15

SILICON SMALL-SIGNAL TRANSISTOR DICE (continued)

DIE NO. **2C2222A** — NPN
LINE SOURCE — DMB101

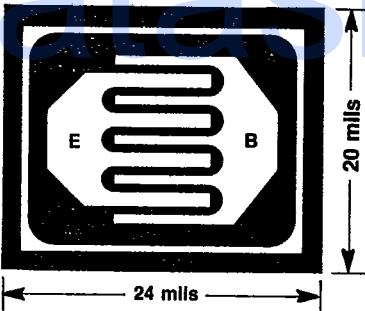


Designed for general purpose switching and amplifier applications.

This die provides performance similar to that of the following device types:

2N696*	2N2540	2N3116	2N5582	MPS3569
2N697	2N2741	2N3295*	MMCM2222	MPS3704
2N731	2N2788	2N3299	MMT2222	MPS3705
2N956	2N2789	2N3300	MPS2222,A	MPS3706
2N1420*	2N2790	2N3301	MPS3403	MPS5136
2N1613	2N2791	2N3302	MPS3404	MPS5137
2N1711	2N2792	2N3512*	MPS3405	MPS6530*
2N1959*	2N2845	2N3704*	MPS3414	MPS6531*
2N1983*	2N2846*	2N3705	MPS3415	MPS6532*
2N1984*	2N2847	2N3706	MPS3416	MPS6560
2N2218,A	2N2848*	2N4400	MPS3417	MPS6561
2N2219,A	2N2951*	2N4401	MPS3417	MPS8092
2N2221,A	2N2952	2N4450	MPS3565	MPS8098
2N2222,A	2N2958*	2N5219	MPS3566	MPS8099
2N2224*	2N2959	2N5220	MPS3567	MPD003
2N2477	2N3015*	2N5225	MPS3568	MPD005
2N2539	2N3115	2N5581		

*No longer available



METALLIZATION —

Top Al

Back Au

BACKSIDE GOLD 3000Å

DIE THICKNESS 6 ± 2 mils

BONDING PAD SIZE —

Emitter 4.1 x 10.1 mils

Base 4.1 x 12.7 mils

GLASSIVATION — The die active area, except for bond windows, is covered with Glassivation to protect from contaminants and accidental bonding.

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$; Note 1)

Parameter	Test Conditions	Min	Max	Unit
BV_{CEO}	$I_C = 10 \text{ mAdc}, I_B = 0$	40	—	Vdc
BV_{CBO}	$I_C = 10 \mu\text{Adc}, I_E = 0$	75	—	Vdc
BV_{EBO}	$I_E = 10 \mu\text{Adc}, I_C = 0$	6.0	—	Vdc
i_{CBO}	$V_{CB} = 50 \text{ Vdc}, I_E = 0$	—	10	nAdc
h_{FE}	$I_C = 150 \text{ mAdc}, V_{CE} = 10 \text{ Vdc}$	100	300	—

- NOTES:
1. Because of the limitations of probe testing, only dc parameters are tested. These parameters must be measured using pulse techniques: pulse width $\leq 300 \mu\text{s}$, duty cycle $\leq 2\%$.
 2. Detailed device characteristics are available from your Motorola sales representative.

These are large bonding pad geometries specifically designed for hybrid use MIL-S-19500, die are available when required.