

**2N6107 PLASTIC FAMILY [p-n-p] (silicon) [cont'd]**  
 $f_T = 10 \text{ MHz min}; P_T = 40 \text{ W max}$

**DESCRIPTION**

**AUDIO TYPES**

- 40876 Output, 25-W Full-Comp. Univ. Amplifier
- 40874 General Purpose

| $V_{CE(sus)}$<br>V | $V_{CER(sus)}$<br>V | $V_{CEV(sus)}$<br>V | $h_{FE}$   |               | $I_{CER} - \text{mA}$           |     |               | $V_{CE(sat)} - \text{V}$ |            |            | $V_{BE} - \text{V}$ |      |    |
|--------------------|---------------------|---------------------|------------|---------------|---------------------------------|-----|---------------|--------------------------|------------|------------|---------------------|------|----|
|                    |                     |                     | $I_C$<br>A | $V_{CE}$<br>V | Temp. $-^{\circ}\text{C}$<br>25 | 150 | $V_{CE}$<br>V | $I_C$<br>A               | $I_B$<br>A | $I_C$<br>A |                     |      |    |
| -50                | -60                 | -                   | 20-120     | -3            | -4                              | -1  | -             | -50                      | -1         | -3         | -0.3                | -1.5 | -3 |
| -70                | -80                 | -                   | 30-150     | -2            | -4                              | -1  | -             | -70                      | -1         | -2         | -0.2                | -1.5 | -2 |

**OTHER TYPES**

- BD240 Epitaxial-Base, TO-220 AB
- BD240A Epitaxial-Base, TO-220 AB
- BD240B Epitaxial-Base, TO-220 AB
- BD240C Epitaxial-Base, TO-220AB
- BD242 Epitaxial-Base, TO-220AB
- BD242A Epitaxial - Base, TO220 AB
- BD242B Epitaxial - Base, TO-220 AB
- BD242C Epitaxial - Base, TO-220 AB
- BD244 Epitaxial - Base, TO220 AB
- BD244A Epitaxial-Base, TO-220 AB
- BD244B Epitaxial - Base, TO220 AB
- BD244C Epitaxial - Base, TO-220 AB

|      |   |   |    |    |    |       |   |      |      |    |       |      |    |
|------|---|---|----|----|----|-------|---|------|------|----|-------|------|----|
| -45  | - | - | 15 | -1 | -4 | -0.2† | - | -45  | -0.7 | -1 | -0.2  | -1.3 | -1 |
| -60  | - | - | 15 | -1 | -4 | -0.2† | - | -60  | -0.7 | -1 | -0.2  | -1.3 | -1 |
| -80  | - | - | 15 | -1 | -4 | -0.2† | - | -80  | -0.7 | -1 | -0.2  | -1.3 | -1 |
| -100 | - | - | 15 | -1 | -4 | -0.2† | - | -100 | -0.7 | -1 | -0.2  | -1.3 | -1 |
| -45  | - | - | 10 | -3 | -4 | -0.2† | - | -45  | -1.2 | -3 | -0.6  | -1.8 | -3 |
| -60  | - | - | 10 | -3 | -4 | -0.2† | - | -60  | -1.2 | -3 | -0.6  | -1.8 | -3 |
| -80  | - | - | 10 | -3 | -4 | -0.2† | - | -80  | -1.2 | -3 | -0.6  | -1.8 | -3 |
| -100 | - | - | 10 | -3 | -4 | -0.2† | - | -100 | -1.2 | -3 | -0.6  | -1.8 | -3 |
| -45  | - | - | 15 | -3 | -4 | -0.4† | - | -45  | -1.5 | -6 | -1.00 | -2   | -6 |
| -60  | - | - | 15 | -3 | -4 | -0.4† | - | -60  | -1.5 | -6 | -1.00 | -2   | -6 |
| -80  | - | - | 15 | -3 | -4 | -0.4† | - | -80  | -1.5 | -6 | -1.00 | -2   | -6 |
| -100 | - | - | 15 | -3 | -4 | -0.4† | - | -100 | -1.5 | -6 | -1.00 | -2   | -6 |

● At  $V_{CE} = -30 \text{ V}$  ▲ At  $V_{CE} = -50 \text{ V}$  ■ At  $V_{CE} = -70 \text{ V}$  \* $I_{CEO}$  † $I_{CES}$

**2N6177 PLASTIC FAMILY [n-p-n] (silicon)**  
 $f_T = 20 \text{ MHz min}; P_T = 20 \text{ W max}$

**2N TYPES**

- 2N6175 High Frequency, Fast Switch
- 2N6176 High Frequency, Fast Switch
- 2N6177 High Frequency, Fast Switch

|     |       |   |        |      |    |       |   |     |     |      |       |     |      |
|-----|-------|---|--------|------|----|-------|---|-----|-----|------|-------|-----|------|
| 250 | 300 ● | - | 30-190 | 0.02 | 10 | 500 ■ | - | 300 | 0.5 | 0.05 | 0.004 | 1.3 | 0.05 |
| 300 | 350 ● | - | 30-150 | 0.02 | 10 | 500 ■ | - | 300 | 0.5 | 0.05 | 0.004 | 1.3 | 0.05 |
| 350 | 400 ● | - | 30-150 | 0.05 | 10 | 500 ■ | - | 450 | 0.5 | 0.05 | 0.004 | 1.3 | 0.05 |

●  $V_{CBO}$  ■  $I_{CEV}$

**2N6178 PLASTIC FAMILY [n-p-n] (silicon)**  
 $f_T = 50 \text{ MHz min}; P_T = 25 \text{ W max}$

**2N TYPES**

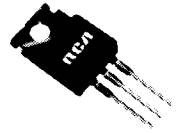
- 2N6179 NPN Complement of 2N6181
- 2N6178 NPN Complement of 2N6180

|    |    |     |        |     |   |     |   |    |     |     |      |     |     |
|----|----|-----|--------|-----|---|-----|---|----|-----|-----|------|-----|-----|
| 50 | 65 | 75  | 40-250 | 0.5 | 4 | 1 ● | - | 45 | 0.8 | 0.5 | 0.05 | 1.5 | 0.5 |
| 75 | 90 | 100 | 30-130 | 0.5 | 4 | 1 ● | - | 60 | 0.5 | 0.5 | 0.05 | 1.2 | 0.5 |

●  $I_{CEO}$



TO-220 AA



TO-220 AB  
 VERSAWATT



Plastic TO-5