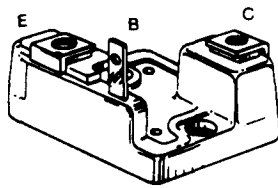


# POWER TRANSISTORS — BIPOLAR PLASTIC (continued)

## TO-220AB Package (continued)

| i <sub>C</sub> Cont<br>Amps Max | V <sub>CEO</sub> (sus)<br>Volts Min | Device Type                |                            | h <sub>FE</sub><br>Min/Max  | @ I <sub>C</sub><br>Amp | Resistive Switching         |                             |                         | f <sub>T</sub><br>MHz<br>Min | P <sub>D</sub> (Case)<br>Watts<br>@ 25°C |
|---------------------------------|-------------------------------------|----------------------------|----------------------------|-----------------------------|-------------------------|-----------------------------|-----------------------------|-------------------------|------------------------------|------------------------------------------|
|                                 |                                     | NPN                        | PNP                        |                             |                         | t <sub>s</sub><br>μs<br>Max | t <sub>f</sub><br>μs<br>Max | @ I <sub>C</sub><br>Amp |                              |                                          |
|                                 |                                     |                            |                            |                             |                         |                             |                             |                         |                              |                                          |
| 12                              | 90                                  | BUV26                      |                            |                             |                         | 1                           | 0.15                        | 12                      |                              | 85                                       |
|                                 | 120                                 | BUV27<br>BUS36             |                            | 30 min                      | 10                      | 1.2<br>0.5 typ              | 0.40<br>0.12 typ            | 8<br>12                 | 30                           | 85<br>107                                |
|                                 | 150                                 | BUS37                      |                            | 30 min                      | 10                      | 0.5 typ                     | 0.12 typ                    | 12                      | 30                           | 107                                      |
|                                 | 300                                 | MJE13008                   |                            | 6/30                        | 8                       | 3                           | 0.7                         | 8                       | 4                            | 100                                      |
|                                 | 400                                 | MJE13009                   |                            | 6/30                        | 8                       | 3                           | 0.7                         | 8                       | 4                            | 100                                      |
| 15                              | 30                                  | D44VH1                     | D45VH1                     | 20 min                      | 4                       | 0.7                         | 0.09                        | 8                       | 50 typ                       | 83                                       |
|                                 | 40                                  | 2N6486                     | 2N6489                     | 20/150                      | 5                       | 0.6 typ                     | 0.3 typ                     | 5                       | 5                            | 75                                       |
|                                 | 45                                  | D44VH4<br>BDW39            | D45VH4<br>BDW44            | 20 min<br>250 min           | 4<br>10                 | 0.5                         | 0.09                        | 8                       | 50 typ<br>4                  | 83<br>85                                 |
|                                 | 60                                  | BDW40<br>2N6487<br>D44VH7  | BDW45<br>2N6490<br>D45VH7  | 250 min<br>20/150<br>20 min | 10<br>5<br>4            | 0.6 typ<br>0.5              | 0.3 typ<br>0.09             | 5<br>8                  | 4<br>5<br>50 typ             | 85<br>75<br>83                           |
|                                 | 80                                  | 2N6488<br>D44VH10<br>BDW41 | 2N6491<br>D45VH10<br>BDW46 | 20/150<br>20 min<br>250 min | 5<br>4<br>10            | 0.6 typ<br>0.5              | 0.3 typ<br>0.09             | 5<br>8                  | 5<br>50 typ<br>4             | 75<br>83<br>85                           |
|                                 | 100                                 | BDW42                      | BDW47                      | 250 min                     | 10                      |                             |                             |                         | 4                            | 85                                       |
|                                 | 120                                 | BDW43                      | BDW48                      | 250 min                     | 10                      |                             |                             |                         | 4                            | 85                                       |

# | h<sub>fe</sub> | @ 1 MHz



CASE 353-01  
MEDIUM CURRENT PACKAGE

| i <sub>c</sub> Cont<br>Amps Max | V <sub>CEO</sub> (sus)<br>Volts Min | Device Type        |     | h <sub>FE</sub><br>Min/Max | @ I <sub>C</sub><br>Amps | t <sub>s</sub><br>μs<br>Max | t <sub>f</sub><br>μs<br>Max | @ I <sub>C</sub><br>Amps | P <sub>D</sub> (Case)<br>Watts<br>@ 25°C |
|---------------------------------|-------------------------------------|--------------------|-----|----------------------------|--------------------------|-----------------------------|-----------------------------|--------------------------|------------------------------------------|
|                                 |                                     | NPN                | PNP |                            |                          |                             |                             |                          |                                          |
| 37.5                            | 850                                 | MJ10041<br>MJ10042 |     | 25 min<br>35 min           | 25<br>25                 | 10<br>100                   | 5<br>35                     | 25<br>25                 | 250                                      |
| 75                              | 450                                 | MJ10044<br>MJ10045 |     | 50 min<br>50 min           | 50<br>50                 | 3.8<br>25                   | 1.3<br>10                   | 50<br>50                 |                                          |
| 100                             | 250                                 | MJ10047<br>MJ10048 |     | 75 min<br>75 min           | 100<br>100               | 4.0<br>20                   | 1.0<br>8                    | 100<br>100               |                                          |