



**2SD1876**

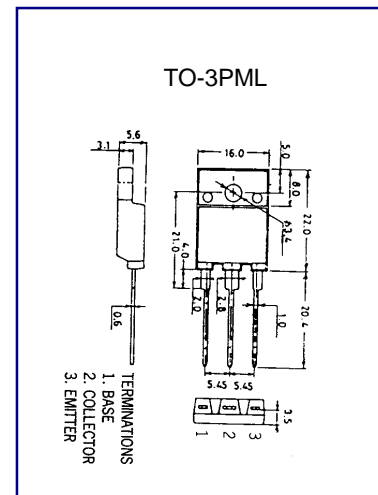
**NPN TRIPLE DIFFUSED  
PLANAR SILICON TRANSISTOR**

**COLOR TV HORIZONTAL OUTPUT  
APPLICATIONS(Damper Diode BUILT IN)**

- High Collector-Base Voltage( $V_{CBO}=1500V$ )
- High Speed Switching

**ABSOLUTE MAXIMUM RATINGS ( $T_a=25^{\circ}C$ )**

| Characteristic                              | Symbol    | Rating  | Unit        |
|---|-----------|---------|-------------|
| Collector-Base Voltage                      | $V_{CBO}$ | 1500    | V           |
| Collector-Emitter Voltage                   | $V_{CEO}$ | 1500    | V           |
| Emitter-Base voltage                        | $V_{EBO}$ | 6       | V           |
| Collector Current (DC)                      | $I_c$     | 3       | A           |
| Collector Dissipation ( $T_c=25^{\circ}C$ ) | $P_c$     | 50      | W           |
| Junction Temperature                        | $T_j$     | 150     | $^{\circ}C$ |
| Storage Temperature                         | $T_{stg}$ | -50~150 | $^{\circ}C$ |



**ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}C$ )**

| Characteristic                                  | Symbol        | Test Condition                                       | Min | Typ | Max | Unit    |
|---|---------------|--|-----|-----|-----|---------|
| Collector- Emitter Cutoff Current( $V_{BE}=0$ ) | $I_{CES}$     | $V_{CE}= 1400 V$ ,                                   |     |     | 1.0 | mA      |
| Collector Cutoff Current                        | $I_{CBO}$     | $R_{BE}=0$   |     |     | 10  | $\mu A$ |
| Emitter Cutoff Current                          | $I_{EBO}$     | $V_{CB}= 800 V$ , $I_E=0$                            |     |     | 1.0 | mA      |
| DC Current Gain                                 | $h_{FE}$      | $V_{EB}= 4V$ , $I_c=0$                               | 8   |     |     |         |
| Collector- Emitter Saturation Voltage           | $V_{CE(sat)}$ | $V_{CE}= 5V$ ,<br>$I_c=1A$<br>$I_c= 2A$ , $I_B=0.6A$ |     |     | 5.0 | V       |