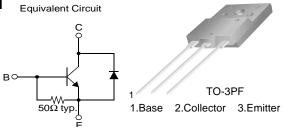


KSC5802D

High Voltage Color Display Horizontal Deflection Output

(Built In Damper Diode)

- High Breakdown Voltage BV_{CBO}=1500V
- High Speed Switching : t_F=0.1μs (Typ.)
- Wide S.O.A
- For C-Monitor(69KHz)



NPN Triple Diffused Planar Silicon Transistor

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Value | Units |
|------------------|--|------------|-------|
| V _{CBO} | Collector-Base Voltage | 1500 | V |
| V_{CEO} | Collector-Emitter Voltage | 800 | V |
| V_{EBO} | Emitter-Base Voltage | 6 | V |
| I _C | Collector Current (DC) | 10 | Α |
| I _{CP} | Collector Current (Pulse) | 30 | Α |
| P _C | Collector Dissipation (T _C =25°C) | 60 | W |
| TJ | Junction Temperature | 150 | °C |
| T _{STG} | Storage Temperature | - 55 ~ 150 | °C |

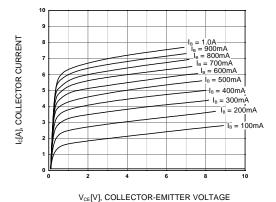
Electrical Characteristics T_C=25°C unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Units |
|--------------------------------------|--------------------------------------|--|---------|------|------------|-------|
| I _{CES} | Collector Cut-off Current | V _{CE} = 1400V, V _{BE} =0 | | | 1 | mA |
| I _{CBO} | Collector Cut-off Current | $V_{CB} = 800V, I_{E} = 0$ | | | 10 | μΑ |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = 4V, I_{C} = 0$ | 50 | | 250 | mA |
| h _{FE1} h _{FE2} | DC Current Gain | $V_{CE} = 5V, I_{C} = 1A$ $V_{CE} = 5V, I_{C} = 6A$ | 15 7 | | 40 11.5 | |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | $I_C = 6A, I_B = 1.5A$ | | | 3 | V |
| V _{BE} (sat) | Base-Emitter Saturation Voltage | $I_C = 6A, I_B = 1.5A$ | | | 1.5 | V |
| t _F | Fall Time | $V_{CC} = 200V, I_C = 6A$ $I_{B1} = 1.2A, I_{B2} = -2.4A$ $R_L = 33.3\Omega$ | | 0.1 | 0.3 | μѕ |

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V_{CE}=5V

Typical Characteristics



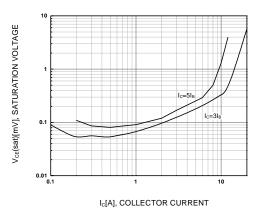
0.1 1

h_{FE}, DC CURRENT GAIN

Figure 1. Static Characterisic

Figure 2. DC current Gain

I_c[A], COLLECTOR CURRENT



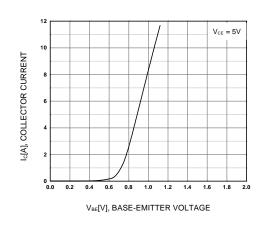
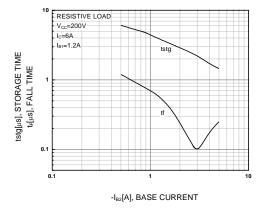


Figure 3. Collector-Emitter Saturation Voltage

Figure 4. Base-Emitter On Voltage



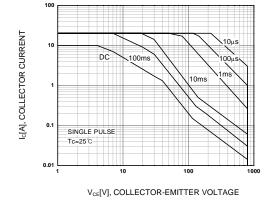
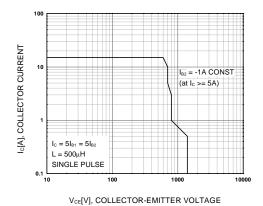


Figure 5. Switching Time

Figure 6. Safe Operating Area

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Typical Characteristics (Continued)



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NO LEAST TEMPERATURE

Figure 7. Reverse Bias Safe Operating Area

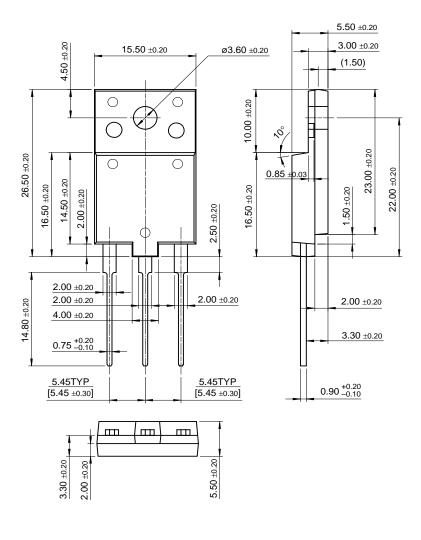
Figure 8. Power Derating

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Package Demensions

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TO-3PF



Dimensions in Millimeters

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