

No.2424

2 S D 1 8 7 7

NPN Triple Diffused Planar Type Silicon Transistor

COLOR TV HORIZONTAL DEFLECTION OUTPUT APPLICATIONS

Applications

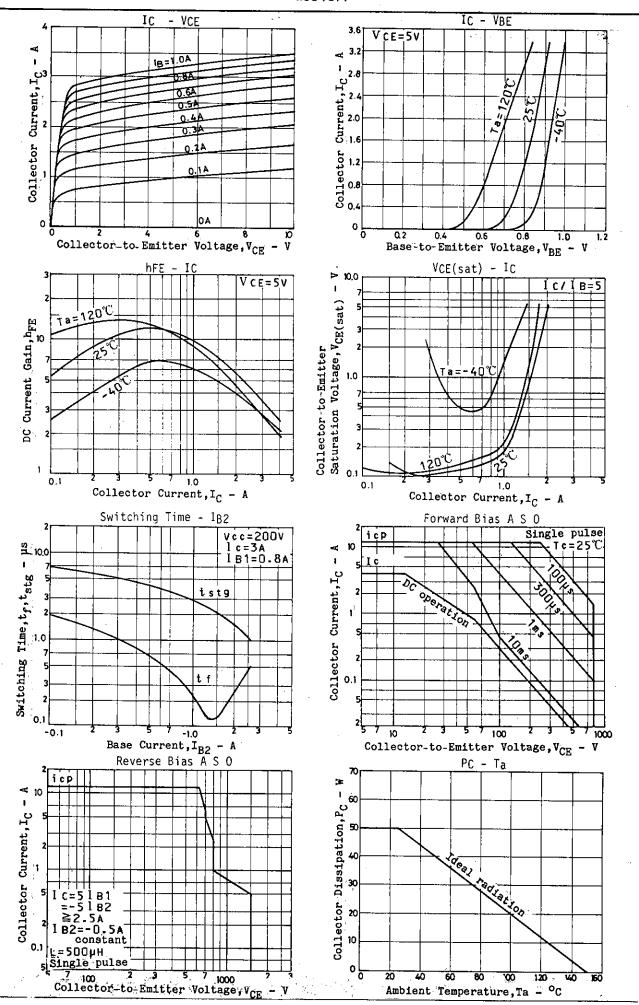
- . Color TV horizontal deflection output
- . Color display horizontal deflection output

Features

- . High speed (t_f =100ns)
- . high breakdown voltage (V_{CBO} =1500V). High reliability (adoption of HVP process)
- . On-chip damper diode

Absolute Maximum Ratings at Ta= Collector_to-Base Voltage Collector_to-Emitter Voltage Emitter-to-Base Voltage Collector Current Peak Collector Current Collector Dissipation Junction Temperature Storage Temperature	25°C VCBO VCEO VEBO IC icp PC Tj	~ 55 t	1500 800 6 4 12 50 150 +150	o	V V V A A W	
Electrical Characteristics at T Collector Cutoff Current Collector Sustain Voltage Emitter Cutoff Current C-E Saturation Voltage B-E Saturation Voltage DC Current Gain Diode Forward Voltage Fall Time	a=25°C ICES ICBO VCEO(sus) IEBO VCE(sat) VBE(sat) hFE1 hFE2 VF tf	V _{CE} =1500V V _{CB} =800V I _C =100mA, I _B =0 V _{EB} =4V I _C =2.5A, I _B =0.8A I _C =2.5A, I _B =0.8A V _{CE} =5V, I _C =0.5A V _{CE} =5V, I _C =2.5A I _{EC} =4A I _C =3A, I _B 1=0.8A, I _B 2=-1.6A	min 800 40 8 3.5	typ 0.1	max 1.0 10 130 5 1.5 7 2.0 0.3	unit mA µA V mA V V

Switching Time Package Dimensions 2039 Test Circuit (unit:mm) PW=20µs,duty≦1% 8.0 output Q - IB2 E: Emitter C: Collector B: Base Unit (resistance:Ω, capacitance:F) SANYO: TO3PML



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