

No.2771

2 S C 3 9 9 7

NPN Triple Diffused Planar Silicon Transistor

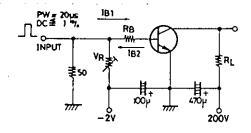
Very High-Definition Color Display Horizontal Deflection Output Applications

## Features

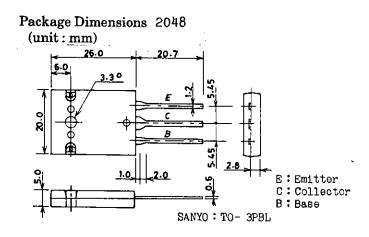
- . High speed ( $t_f$ =100ns typ)
  . High breakdown voltage ( $v_{CBO}$ =1500V)
  . High reliability (adoption of HVP process)
- . Adoption of MBIT process

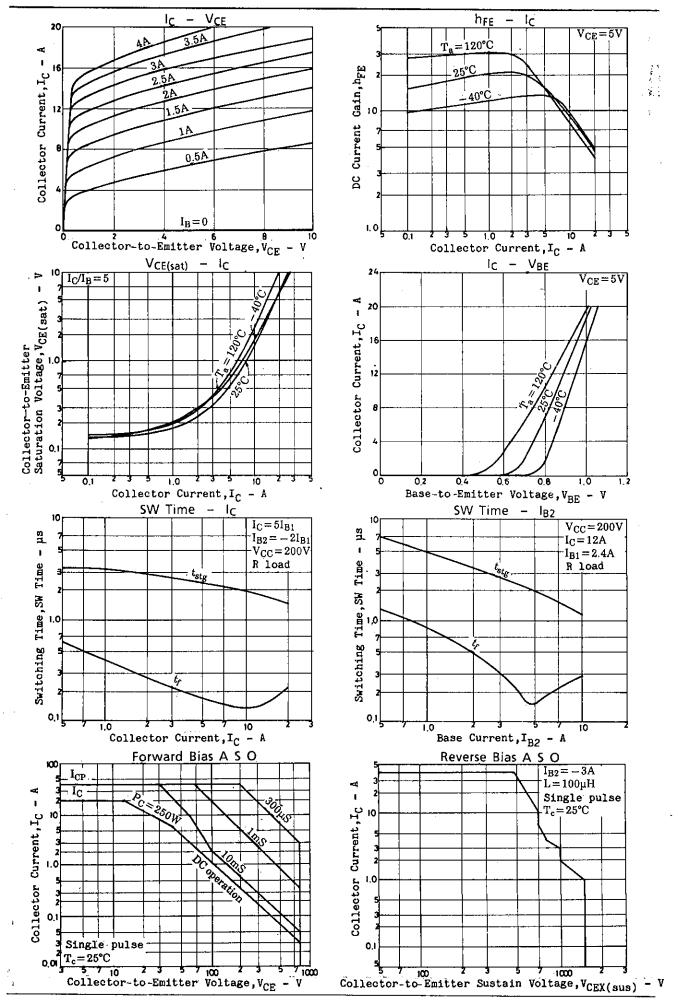
Absolute Maximum Ratings at Ta=25°C					unit	;
Collector-to-Base Voltage	$v_{CBO}$		150	0	V	
Collector-to-Emitter Voltage	VCEO		80	10	V	
Emitter-to-Base Voltage	$v_{\rm EBO}$			6	V	
Collector Current	$^{\mathtt{I}}\mathtt{C}$		2	20	A	
Peak Collector Current	ien	_	4	0	A	
Collector Dissipation	$P_{\mathbf{C}}^{-F}$	Tc=25 <sup>0</sup> C	25	0	W	
Junction Temperature	P <sub>C</sub> Tj		15	0	°C	
Storage Temperature	Tstg		-55 to +15		oC	
Electrical Characteristics at Ta=25°C min				n	typ	r
Collector Cutoff Current Ice	.0	$V_{CD} = 1500 V$			• •	

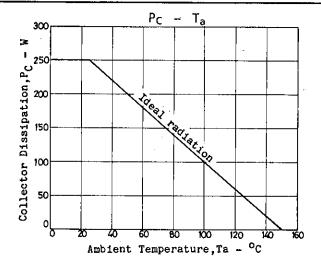
## Switching Time Test Circuit



Unit (resistance: $\Omega$ , capacitance:F)







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