

2SC3176

NPN Epitaxial Planar Silicon Transistor

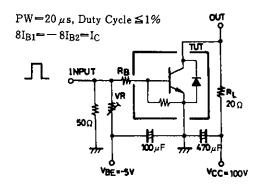
CRT Horizontal Deflection Output Applications (with Damper Diode)

Features

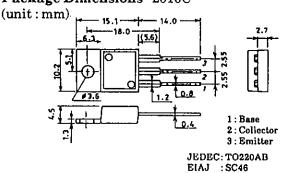
- · Fast switching speed.
- \cdot Especially suited for use in high-definition CRT display ($V_{CC} = 12$ to 24V).
- · Wide ASO.

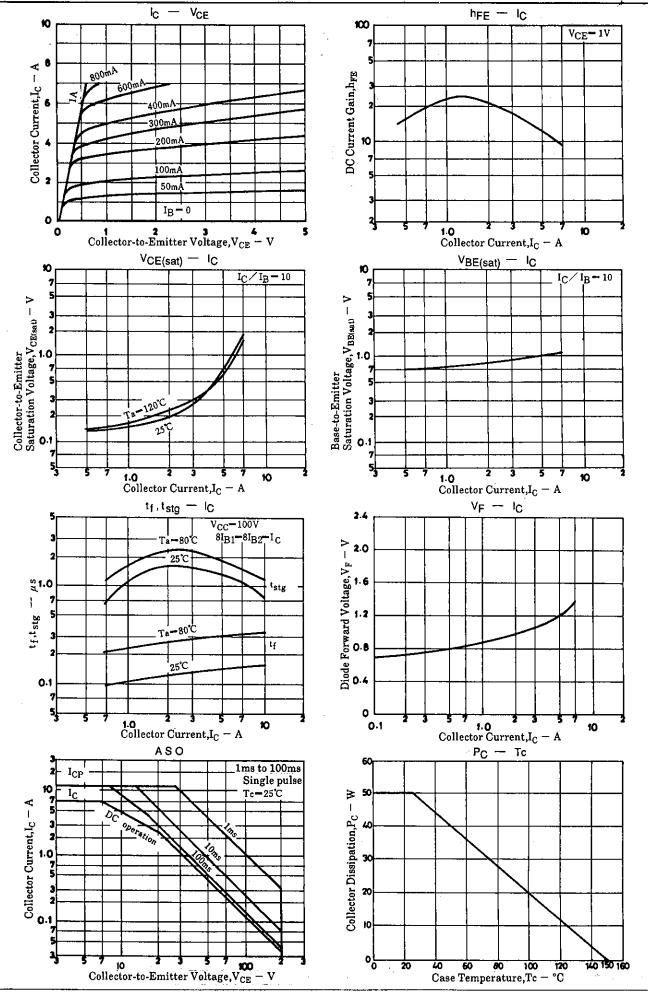
Absolute Maximum Ratings at Ta = 25°C					unit	t
Collector-to-Base Voltage	V_{CBO}			400	V	
Collector-to-Emitter Voltage	V_{CEO}			200	V	
Emitter-to-Base Voltage	V_{EBO}			6	v	
Collector Current	$I_{\mathbf{C}}$			7	À	
Collector Current (Pulse)	I_{CP}			12	A	
Base Current	I_B			4	A	
Collector Dissipation	$ ilde{ ext{PC}}$	$Tc = 25^{\circ}C$		50	ŵ	
Junction Temperature	$T\tilde{j}$			150	°C	
Storage Temperature	Tstg		-55 to +150		°Č	
Electrical Characteristics at Ta = 25°C		min	typ	max	unit	
Collector Cutoff Current	I_{CBO}	$V_{CB} = 200V, I_E = 0$		JP	100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 6V, I_{C} = 0$			400	mA
DC Current Gain		$V_{CE} = 1V, I_{C} = 1A$	15		-00	
	$h_{FE}(2)$	$V_{CE}=1V, I_{C}=5A$	8		40	
Gain-Bandwidth Product	\mathbf{f}_{T}	$V_{CE} = 10V, I_{C} = 0.5A$	10	40	10	MHz
C-E Saturation Voltage	V _{CE(sat)}	$I_{C} = 5A, I_{B} = 0.65A$			1.	V
B-E Saturation Voltage	V _{BE(sat)}	$I_C = 5A$, $I_B = 0.65A$			1.3	v
C-B Breakdown Voltage	V(BR)CRO	$I_C = 1 \text{mA}, I_E = 0$	400		2.0	Ÿ
Diode Forward Voltage	$V_{\rm F}$	I _F =5A	200		1.5	v
Fall Time	$\mathbf{t_f}$	$I_{C} = 5A, I_{B1} = -I_{B2} = 0.625A$			0.5	μs

Switching Time Test Circuit



Package Dimensions 2010C





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