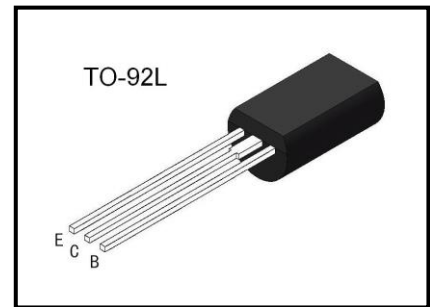


Color TV Audio Output

Color TV Vertical Deflection Output

• Complement to 2SC2383

**Absolute Maximum Ratings** Ta=25°C unless otherwise noted

Parameter	Symbol	Value	Unit
Collector-Base Voltage	BV_{CBO}	-160	V
Collector-Emitter Voltage	BV_{CEO}	-160	V
Emitter-Base Voltage	BV_{EBO}	-6	V
Collector Current	I_C	-1	A
Collector Power Dissipation	P_C	0.9	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~150	°C

Electrical Characteristics Ta=25°C unless otherwise noted

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	BV_{CBO}	$I_C = -100\mu A, I_E = 0$	-160			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C = -1mA, I_B = 0$	-160			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E = -100\mu A, I_C = 0$	-6			V
Collector cut-off current	I_{CBO}	$V_{CB} = -150V, I_E = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6V, I_C = 0$			-1	μA
DC current gain	h_{FE}	$V_{CE} = -5V, I_C = -200mA$	60		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$			-1.5	V
Base-emitter voltage (on)	$V_{BE(on)}$	$V_{CE} = -5V, I_C = -5mA$			-0.75	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -200mA$	20			MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			35	pF

 h_{FE} Classification

Classification	R	O	Y
Range	60-120	100-200	160-320

Typical Characteristics

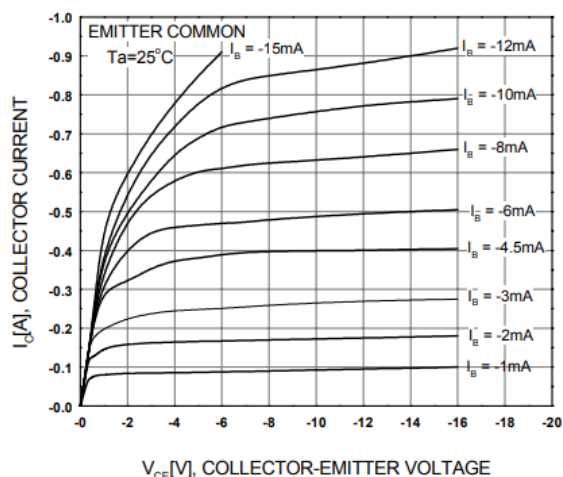


Figure 1. Static Characteristic

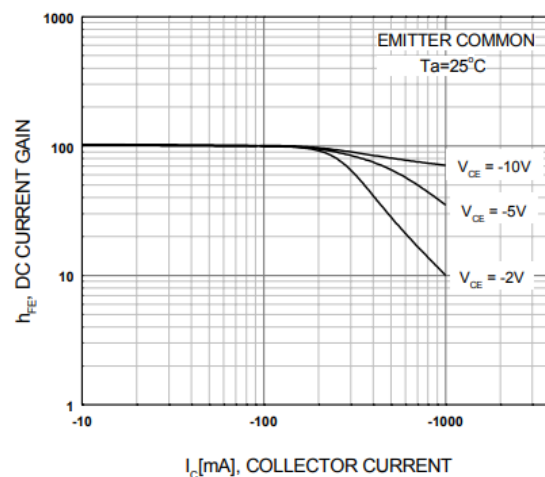


Figure 2. DC current Gain

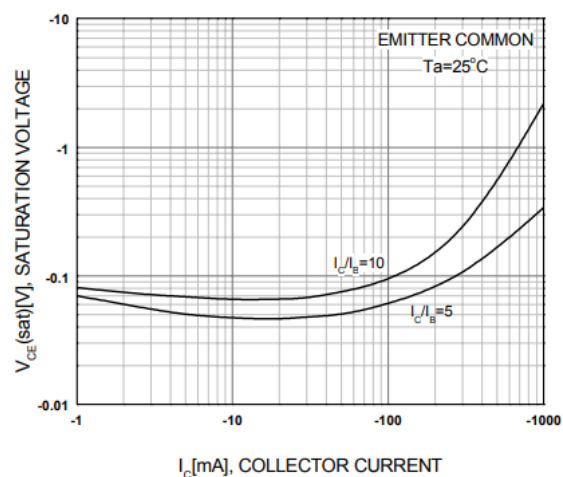


Figure 3. Collector-Emitter Saturation Voltage

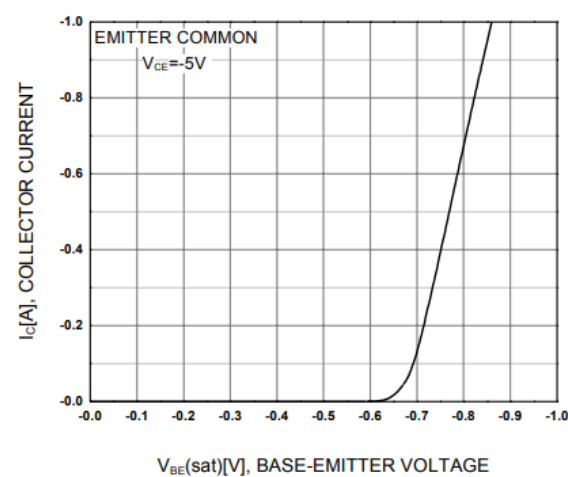


Figure 4. Base-Emitter on Voltage

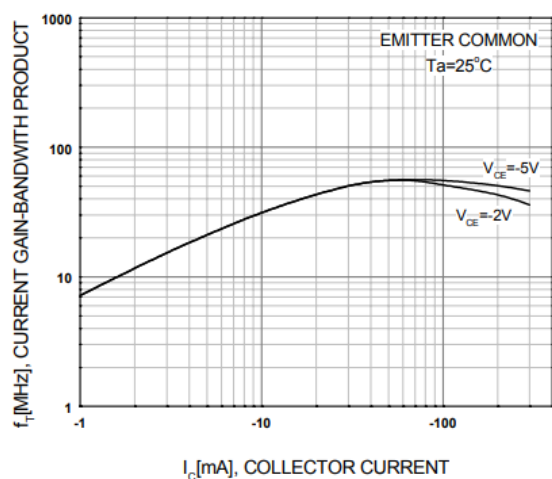


Figure 5. Current Gain Bandwidth Product

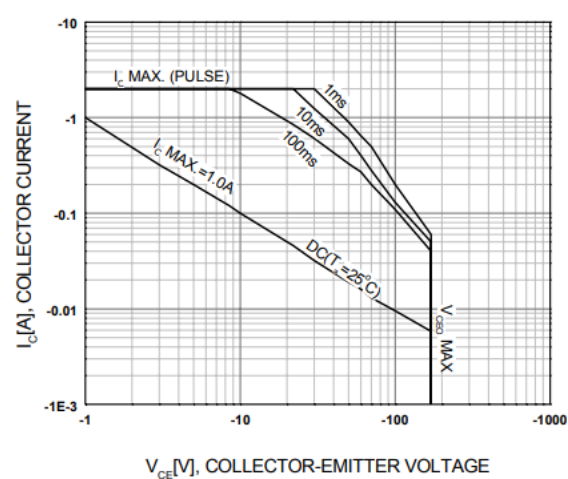
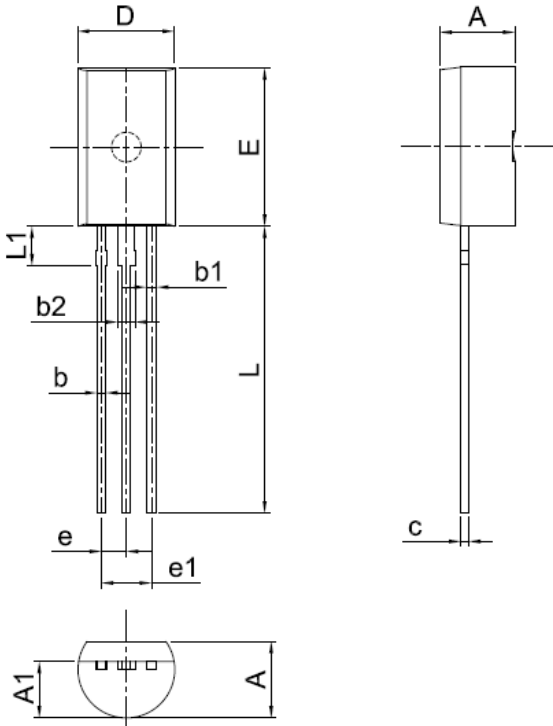


Figure 6. Safe Operating Area

Package Dimensions

	Symbol	Millimeter		Inches	
		Min.	Max.	Min.	Max.
	A	3.60	4.00	0.142	0.157
	A1	2.20	2.60	0.087	0.102
	b	0.40	0.50	0.016	0.020
	b1	0.50	0.65	0.020	0.026
	c	0.35	0.45	0.014	0.018
	D	4.60	5.00	0.181	0.197
	E	7.60	8.00	0.299	0.315
	e	1.24	1.30	0.049	0.051
	e1	2.48	2.60	0.098	0.102
	L	13.50	14.50	0.531	0.571
	L1	1.50	1.90	0.059	0.075