

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Through Hole Package
- 150°C Junction Temperature
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking:Type Number

Mechanical Data

- Case: TO-92, Molded Plastic
- Polarity: indicated as above.

Maximum Ratings @ 25°C Unless Otherwise Specified

Charateristic		Symbol	Value	Unit
Collector-Emitter Voltage	BC556		-65	
	BC557	V _{CEO}	-45	V
	BC558		-30	
Collector-Base Voltage	BC556		-80	
	BC557	V _{CBO}	-50	V
	BC558		-30	
Emitter-Base Voltage		V _{EBO}	-5.0	V
Collector Current(DC)		I _C	-100	mA
Power Dissipation@T _A =25°C		р	625	mW
		Γd	5.0	m₩/ºC
Dower Dissipation@T -25	Power Dissignation @T -26%		1.5	W
Power Dissipation@1 _c =25°C		۲d	12	m₩/ºC
Thermal Resistance, Junction to Ambient Air		$R_{\theta JA}$	200	°C/W
Thermal Resistance, Junction to Case		R _θ JC	83.3	°C/W
Operating & Storage Temperature		T _j , T _{STG}	-55~150	°C

BC556,B BC557,A,B,C BC558,B

PNP Silicon

Amplifier Transistor

625mW



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.170	.190	4.33	4.83			
В	.170	.190	4.30	4.83			
С	.550	.590	13.97	14.97			
D	.010	.020	0.36	0.56			
E	.130	.160	3.30	3.96			
G	.010	.104	2.44	2.64			

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BC556 thru BC558B



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Characteristic Symbol Min Unit Тур Max **OFF CHARACTERISTICS** Collector-Emitter Breakdown Voltage V(BR)CEO V $(I_{C} = -2.0 \text{ mAdc}, I_{B} = 0)$ BC556 -65BC557 -45 BC558 -30 V Collector-Base Breakdown Voltage V(BR)CBO $(I_{C} = -100 \ \mu Adc)$ BC556 -80 BC557 -50 BC558 -30 Emitter-Base Breakdown Voltage V(BR)EBO V -5.0 BC556 $(I_E = -100 \ \mu Adc, I_C = 0)$ BC557 -5.0 BC558 -5.0**ON CHARACTERISTICS** DC Current Gain hFE $(I_{C} = -10 \ \mu Adc, V_{CE} = -5.0 \ V)$ BC557A 90 BC556B/557B/558B 150 _ _ BC557C 270 $(I_{C} = -2.0 \text{ mAdc}, V_{CE} = -5.0 \text{ V})$ BC556 120 500 ____ BC557 120 _ 800 800 BC558 120 BC557A 120 170 220 BC556B/557B/558B 460 180 290 BC557C 420 500 800 $(I_{C} = -100 \text{ mAdc}, V_{CE} = -5.0 \text{ V})$ BC557A 120 ____ ____ BC556B/557B/558B ____ 180 BC557C _ 300 ____ V Collector-Emitter Saturation Voltage VCE(sat) $(I_{C} = -100 \text{ mAdc}, I_{B} = -5.0 \text{ mAdc})$ -0.3 ---V Base-Emitter Saturation Voltage VBE(sat) $(I_{C} = -100 \text{ mAdc}, I_{B} = -5.0 \text{mAdc})$ -1.0Base-Emitter On Voltage V VBE(on) (I_C = -2.0 mAdc, V_{CE} = -5.0 Vdc) -0.55 -0.62 -0.7 $(I_{C} = -10 \text{ mAdc}, V_{CE} = -5.0 \text{ Vdc})$ -0.82 -0.7SMALL-SIGNAL CHARACTERISTICS Current-Gain - Bandwidth Product fT MHz (I_C = -10 mA, V_{CE} = -5.0 V, f = 100 MHz) BC556 150 280 BC557 150 320 ____ BC558 150 360 **Output Capacitance** Cob ____ 3.0 6.0 pF $(V_{CB} = -10 \text{ V}, I_{C} = 0, f = 1.0 \text{ MHz})$

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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BC556 thru BC558B



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BC557/BC558



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