

BC856- BC860 PNP Epitaxial Silicon Transistor

SEMICOI	-AIRCHILD EMICONDUCTOR®				Aug	August 2006
BC85	BC856- BC860					
PNP Ep	PNP Epitaxial Silicon Transistor					
Features	S					
Switching	Switching and Amplifier Applications					
Suitable 1	Suitable for automatic insertion in thick and thin-film circuits	film circuits			3	4
Low Nois Complem	Low Noise: BC859, BC860 Complement to BC846 BC850					S)
					37	SOT-23
				- 080	se z. Ellille	s. Collector
Symbol	RDSOIGLE MAXIIIIUIII KALIIIUS T₁=≊ Svmbol	T _a = 25°C unless otherwise noted eter		Value		Units
Non N	Collector-Base Voltage					
	: BC856			-80		>>
	: BC858/859			8 8		> >
VCEO	Collector-Emitter Voltage			ū		>
	: BC858 : BC857/860	0.4		6 4 6		>>:
>	BCO/OCODO :			00		> >
^EBO	Elilliel-base voltage			?		>
ပ	Collector Current (DC)			-100		mA
ပိ	Collector Power Dissipation			310		Λm
J,	Junction Temperature			150		ပွ
T _{STG}	T _{STG} Storage Temperature	and the state of t	Position	-65 ~ 150		ပ္စ
Electric	These raings are influed values above which the serviceability of Electrical Characteristics* T_=25°C	Seability or any semiconductor device may be imported. T.=25°C unless otherwise noted.	oalled.			
Symbo		Test Condition	Min	Typ	Мах.	Units
СВО	Collector Cut-off Current	V _{CB} = -30V, I _E =0			-15	ν
hFE	DC Current Gain	V _{CE} = -5V, I _C = -2mA	110		800	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -0.5mA I _C = -100mA, I _B = -5mA		-90	-300	Λm Vm
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -10mA, I _B = -0.5mA I _C = -100mA, I _B = -5mA		-700 -900		Уш М
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -5V, I _C = -2mA V _{CE} = -5V, I _C = -10mA	009-	099-	-750 -800	2 m
£	Current Gain Bandwidth Product	V _{CE} = -5V, I _C = -10mA f=100MHz		150		MHz
Cop	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz			9	рF
Ľ Z	Noise Figure : BC856/857/858 : BC859/860	V _{CE} = -5V, I _C = -200μA R _G =2KΩ, f=1KHz		7 7	0 4	8 B
	: BC859 : BC860	V _{CE} = -5V, I _C = -200μA R _G =2KΩ, f=30~15000Hz		1.2	4 2	9 9

www.fairchildsemi.com

BC856- BC860 Rev. B