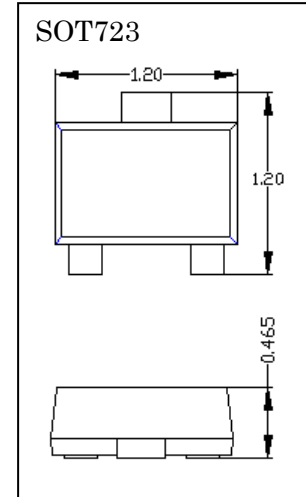
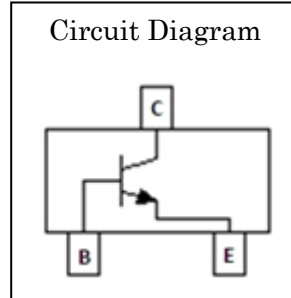


DATA SHEET

BC846AM3 THRU BC848CM3

- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC



Device	BC846A	BC846B	BC847A	BC847B	BC847C	BC848A	BC848B	BC848C
Marking	1A	1B	1E	1F	1G	1J	1K	1L

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	BC846	80
		BC847	50
		BC848	30
V_{CEO}	Collector-Emitter Voltage	BC846	65
		BC847	45
		BC848	30
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current	100	mA
P_C	Collector Power Dissipation	265	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient ^(Note1)	472	°C/W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~+150	°C

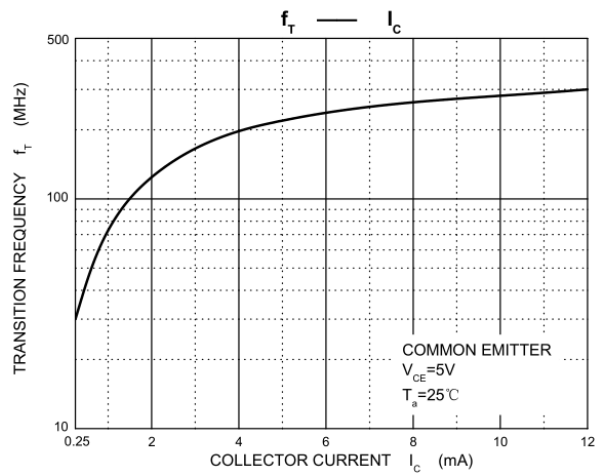
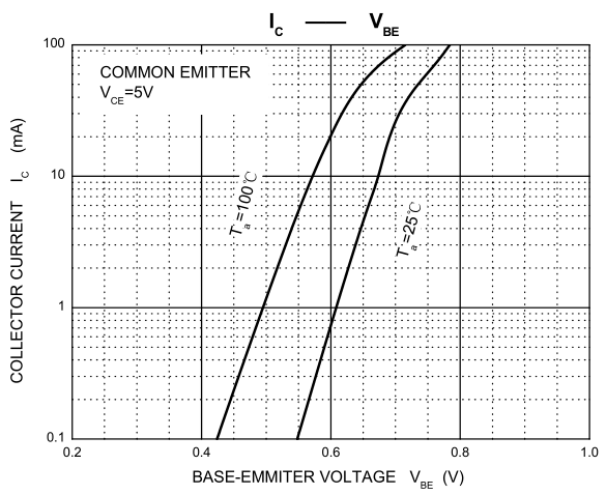
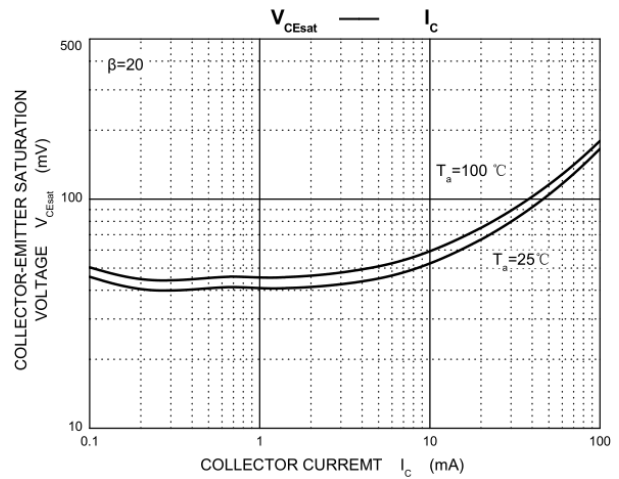
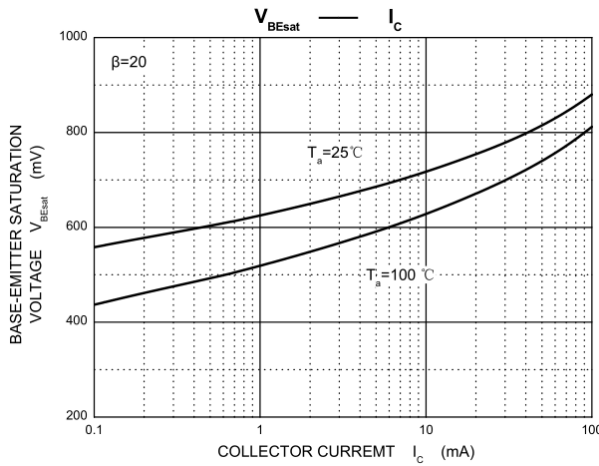
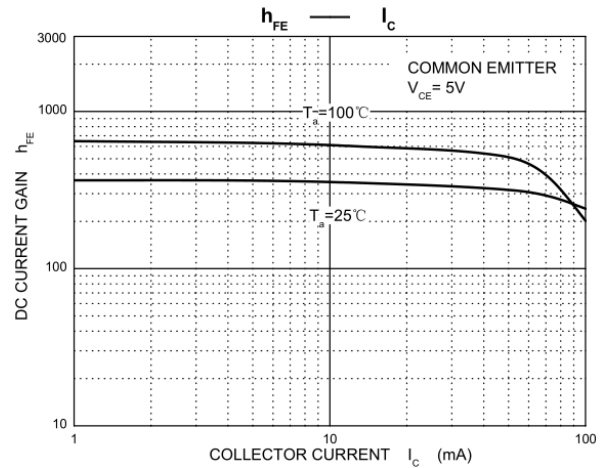
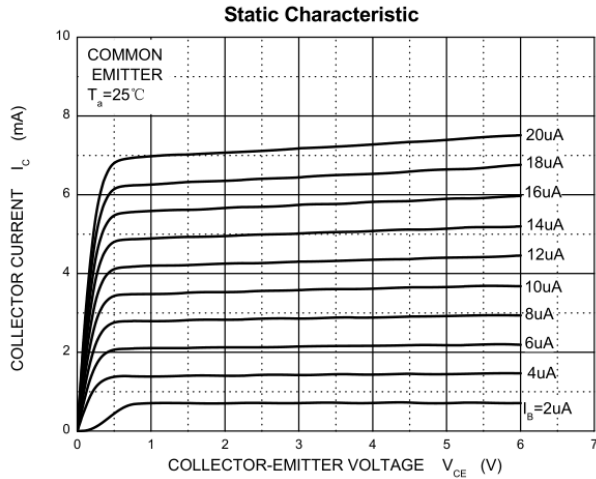
Note:

1. Device Mounted on FR-5: 1.0 X 0.75 X 0.062 inch.

ELECTRICAL CHARACTERISTICS @ 25° C Unless Otherwise Specified

Symbol	Parameter	Test Conditions	Min	Max	Units		
V _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0					
		BC846	65		V		
		BC847	45				
V _{CBO}	Collector-Base Breakdown Voltage	I _C =10μA, I _E =0					
		BC846	80		V		
		BC847	50				
V _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0					
		BC846	6		V		
		BC847	6				
BC848			5				
		I _{CB0}	Collector Cutoff Current	V _{CB} =30V, I _E =0		15	nA
		I _{CE0}	Emitter Cutoff Current	V _{CE} =30V, I _B =0V		1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V, I _C =0		100	nA		
h _{FE}	DC Current Gain	V _{CE} =5V, I _C =2mA					
		BC846A/BC847A/BC848A	110	220			
		BC846B/BC847B/BC848B	200	450			
BC847C/BC848C			420	800			
		V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =0.5mA		0.3	V
		I _C =100mA, I _B =5mA		0.6			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =10mA, I _B =0.5mA		0.9	V		
		I _C =100mA, I _B =5mA		1.1			
V _{BE(on)}	Base-Emitter On Voltage	V _{CE} =5V, I _C =2mA	0.58	0.7	V		
		V _{CE} =5V, I _C =10mA		0.77			
f _T	Current Gain-Bandwidth Product	V _{CE} =5V, I _C =10mA, f=100MHz	100		MHz		

TYPICAL CHARACTERISTICS



ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BC846AM3 THRU BC848CM3	SOT723	Tape & Reel 8000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS

