



Moisture Sensitivity Level 1
Surface mount package ideally Suited for Automatic
Insertion
Halogen-free

: SOT-523
: Tin plated leads, solderable per
J-STD-002 and JESD22-B102

(Ta=25 Unless otherwise specified)

VCBO	Collector-Base Voltage BC846T BC847T BC848T	80 50 30	V
VCEO	Collector-Emitter Voltage BC846T BC847T BC848T	65 45 30	V
VEBO	Emitter-Base Voltage BC846T BC847T BC848T	6 6 5	V
IC	Collector Current	100	mA
PC	Collector Power Dissipation	150	
R _{JA}	Thermal Resistance From Junction To Ambient	833	



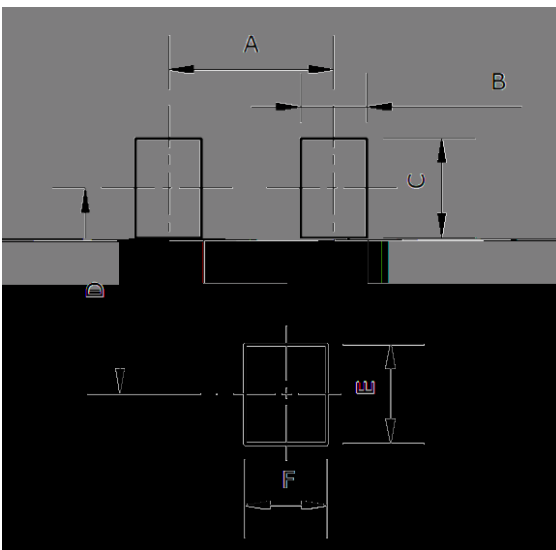
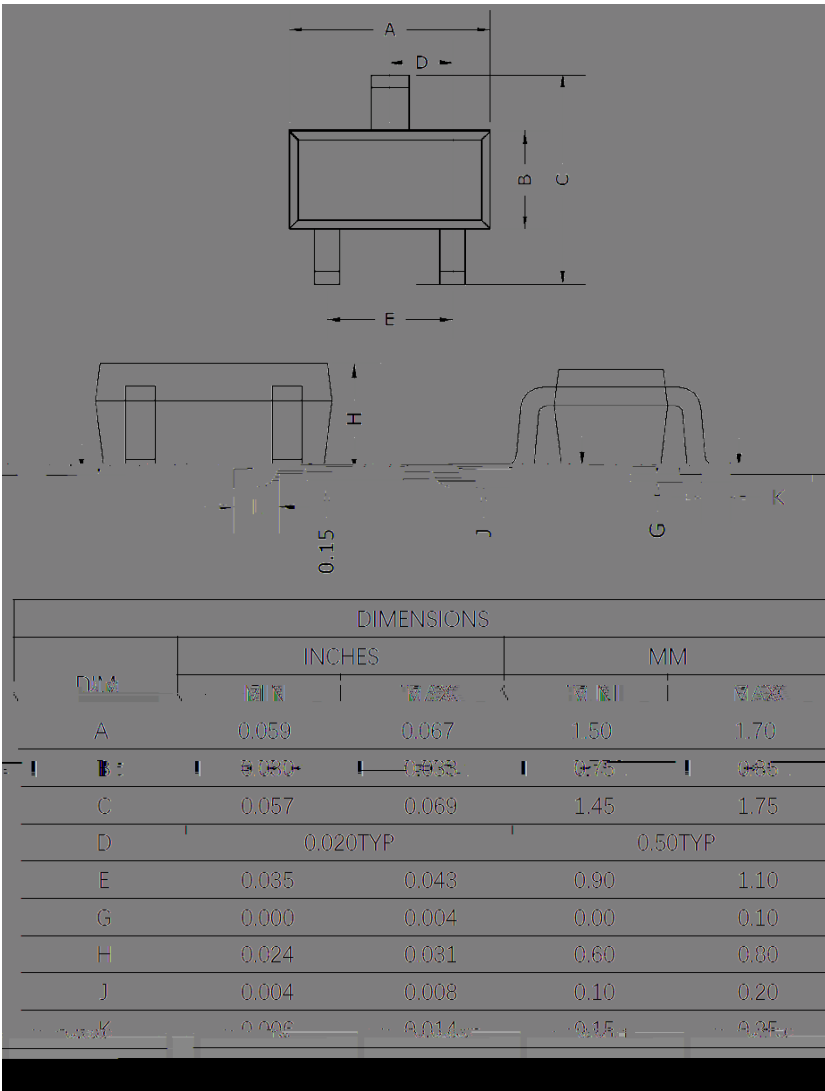
(Ta=25 unless otherwise specified)

Collector-base breakdown voltage BC846T BC847T BC848T	V _{CB0}	I _C =10μA, I _E =0	80 50 30	-	V
Collector-emitter breakdown voltage BC846T BC847T BC848T	V _{CEO}	I _C =10mA, I _B =0	65 45 30	-	V
Emitter-base breakdown voltage BC846T BC847T BC848T	V _{EBO}	I _E =10μA, I _C =0	6 6 5	-	V
Collector-base cut-off current	I _{CB0}	V _{CB} =30 V, I _E =0	-	15	nA
Emitter-base cut-off current	I _{EBO}	V _{EB} =5V, I _C =0	-	100	nA
DC current gain BC846A,847A,848A BC846B,847B,848B BC847C,BC848C	h _{FE}	V _{CE} =5V, I _C = 2mA	110 200 420	220 450 800	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA, I _B = 0.5mA	-	0.25	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B = 5mA	-	0.6	
Base-emitter saturation voltage	V _{BE(sat)}	I _C =10mA, I _B =0.5mA	-	0.9	
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA, I _B =5mA	-	1.1	
		V _{CE} =5V, I _C =2mA	0.58	0.7	
	V _{BE(ON)}	V _{CE} =5V, I _C =10mA	-	0.77	
Transition frequency	f _T	V _{CE} =5V, I _C =10mA f=100MHz	100	-	

(Example)

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vCharacteristics (Typical)



DIMENSIONS	
DIM	SIZE (TYP)
A	1.00
B	0.40
C	0.60
D	1.24
E	0.60
F	0.50



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