MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

www.msksemi.com







SOT - 23



1. BASE

2. EMITTER

3. COLLECTOR

FEATURES

Ideally suited for automatic insertion For switching and AF amplifier applications

DEVICE MARKING

P/N	MARK	P/N	MARK	P/N	MARK
BC846A	1A	BC847A	1E	BC848A	1J
BC846B	1B	BC847B	1F	BC848B	1K
BC846C	1C	BC847C	1G	BC848C	1L

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter		Value	Unit
V _{CBO}	Collector-Base Voltage			V
	BC84	16	80	
	BC84	1 7	50	
	BC84	18	30	
V _{CEO}	Collector-Emitter Voltage			V
	BC84	16	65	
	BC84	17	45	
	BC84	18	30	
V _{EBO}	Emitter-Base Voltage		6	V
Ic	Collector Current –Continuous		0.1	Α
Pc	Collector Power Dissipation		200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient		625	°C/W
TJ	Junction Temperature		150	°C
T _{stg}	Storage Temperature		-55~+150	°C

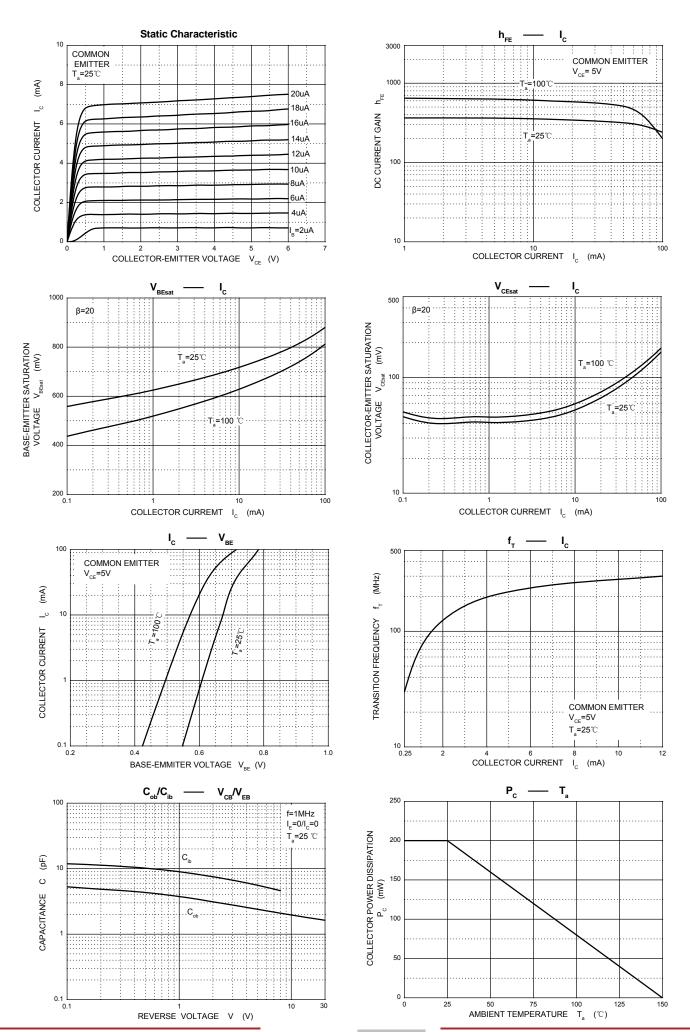






ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	BC846			80			
	BC847	V_{CBO}	I _C = 10μΑ, I _E =0	50			V
	BC848			30			
Collector-emitter breakdown voltage	BC846			65			
	BC847	V_{CEO}	I _C = 10mA, I _B =0	45			V
	BC848			30			
Emitter-base breakdown voltage		V_{EBO}	I _E = 10μA, I _C =0	6			V
Collector cut-off current	BC846		V _{CB} =70 V , I _E =0				
	BC847	I_{CBO}	V _{CB} =50 V , I _E =0			0.1	μA
	BC848		V_{CB} =30 V , I_{E} =0				
Collector cut-off current	BC846		V _{CE} =60 V , I _B =0				
	BC847	I _{CEO}	V _{CE} =45 V , I _B =0			0.1	μΑ
	BC848		V _{CE} =30 V , I _B =0				
Emitter cut-off current		I _{EBO}	V _{EB} =5 V , I _C =0			0.1	μA
DC current gain BC8	46A,847A,848A			110		220	
BC8	46B,847B,848B	h_{FE}	V_{CE} = 5V, I_{C} = 2mA	200		450	
BC846C,E	C847C,BC848C			420		800	
Collector-emitter saturation voltage		V _{CE} (sat)	I _C =100mA, I _B = 5mA			0.5	V
Base-emitter saturation voltage		V _{BE} (sat)	I _C =100mA, I _B = 5mA			1.1	V
Transition frequency		f⊤	V _{CE} = 5 V, I _C = 10mA	100			MHz
		'1	f=100MHz				
Collector output capacitance		C_ob	V _{CB} =10V,f=1MHz			4.5	pF

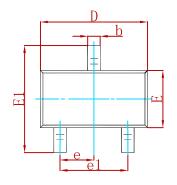


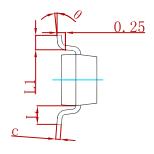


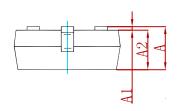




PACKAGE MECHANICAL DATA

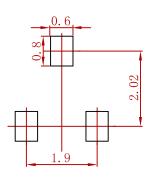






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Suggested Pad Layout



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BC846/BC847/BC848	SOT-23	3000



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specificationsof any andall MSKSEMI Semiconductor products described orcontained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringementsof intellectual property rights or other rightsof third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.

单击下面可查看定价,库存,交付和生命周期等信息

>>MSKSEMI (美森科)