

Micro Commercial Components



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

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Low Collector Saturation Voltage: V_{CE(sat)}=0.25V(Max.)
- Low Output Capacitance: Cob=2.0pF(Typ.)
- Marking : 5343

Maximum Ratings

Symbol	Rating	Rating	Unit	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{CBO}	Collector-Base Voltage	60	V	
V_{EBO}	Emitter-Base Voltage	5.0	V	
Ι _c	Collector Current	150	mA	
Pc	Collector power dissipation	200	mW	
TJ	Junction Temperature	150	°C	
T_{STG}	Storage Temperature	-55 to +150	°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified Symbol Parameter Min Max Units

				max	•	
OFF CHARA	OFF CHARACTERISTICS					
V _{(BR)CBO}	 Collector-Base Breakdown Voltage 60 (I_c=100uAdc, I_B=0) 				Vdc	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage 50 $(I_c=10mAdc, I_B=0)$			Vdc		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =10uAdc, I _C =0)	5.0			Vdc	
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =60Vdc,I _E =0)	ent		0.1	uAdc	
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)			0.1	uAdc	

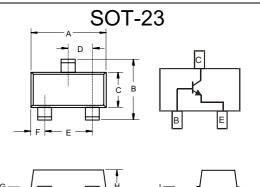
ON CHARACTERISTICS

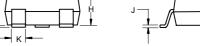
h _{FE}	Forward Current Transfer ratio* (I _c =2.0Adc, V _{ce} =6.0Vdc)	70		700	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =100mAdc, I _B =10mAdc)			0.25	Vdc
f _T	Transition Frequency (V _{CE} =10Vdc, I _C =1.0mAdc)	80			MHz
C _{ob}	Collector Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1.0MHz)		2.0	3.5	pF
NF	Noise Figure (V _{CE} =6.0Vdc, I _C =0.1mAdc, f=1.0KHz, Rg=10KΩ)			10	dB
* / /	0. 70 4 40 V.400 040 0.000 400 1.000	700			

* h_{FE} rank / O: 70-140, Y:120-240, G:200-400, L:300-700

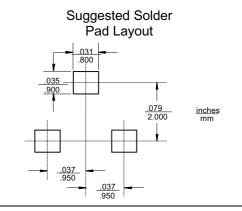
MMBT5343-O MMBT5343-Y MMBT5343-G MMBT5343-L







DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



www.mccsemi.com

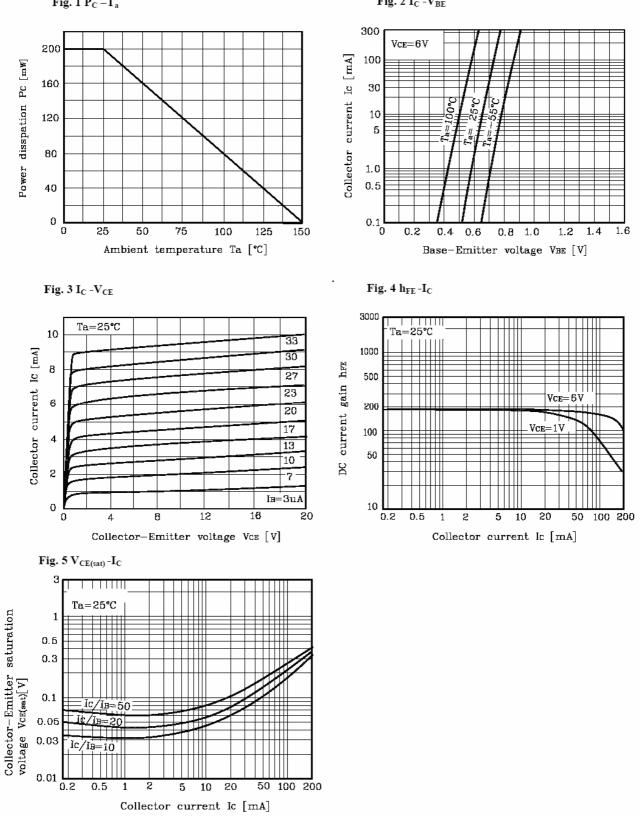
MMBT5343

 $\cdot M \cdot C \cdot C \cdot$

Micro Commercial Components

Fig. 1 P_C –T_a

Fig. 2 I_C -V_{BE}



www.mccsemi.com



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com