

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	
Ιc	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

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 $(I_c=10 \text{mAdc}, I_B=0)$			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)		0.1	uAdc	
I _{EBO}	I _{EBO} Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)		0.1	uAdc	

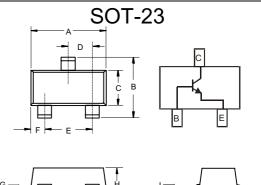
ON CHARACTERISTICS

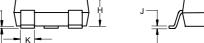
h _{FE}	Forward Current Transfer ratio [*] 70 70 $(I_c=2.0Adc, V_{cE}=6.0Vdc)$		700		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =100mAdc, I _B =10mAdc)			0.25	Vdc
f _T	Transition Frequency (V _{CE} =10Vdc, I _C =1.0mAdc)	80			MHz
C _{ob}	Collector Output Capacitance (V _{CB} =10Vdc, I _E =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

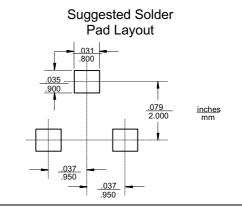
MMBT5343-O MMBT5343-Y MMBT5343-G MMBT5343-L







DIMENSIONS					
	INCH	INCHES		ММ	
DIM	MIN	MAX	MIN	MAX	NOTE
А	.110	.120	2.80	3.04	
В	.083	.098	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	



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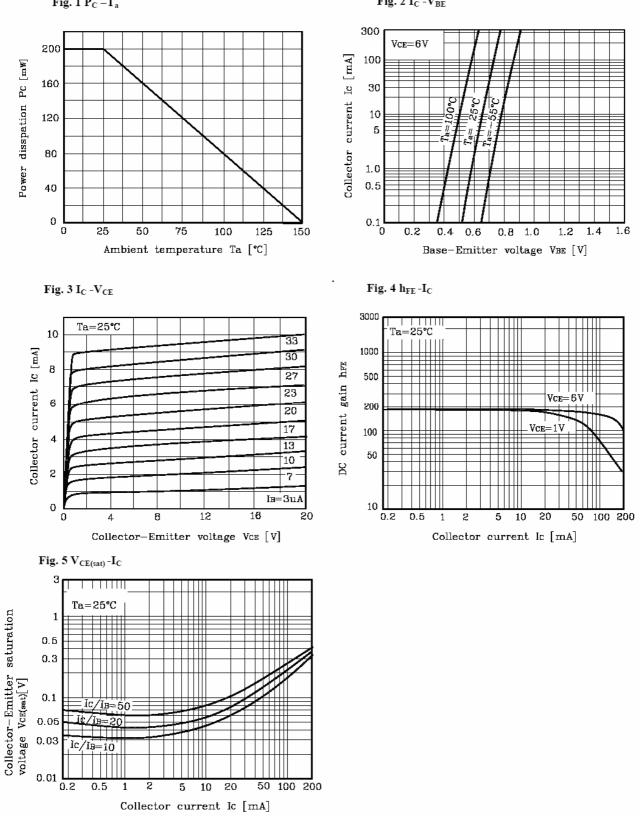
MMBT5343

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Fig. 1 P_C –T_a

Fig. 2 I_C -V_{BE}



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Ordering Information :

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

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