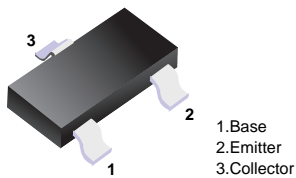
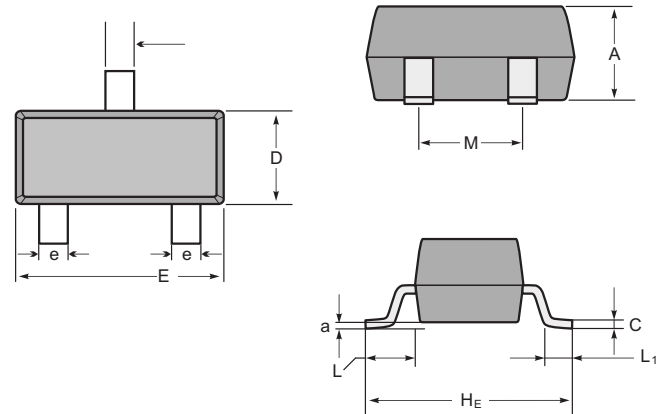


■ Features

- For Switching and Amplifier Applications
- Complementary to MMBTA56



■ Simplified outline(SOT-23)



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

■ Absolute Maximum Ratings Ta = 25°C

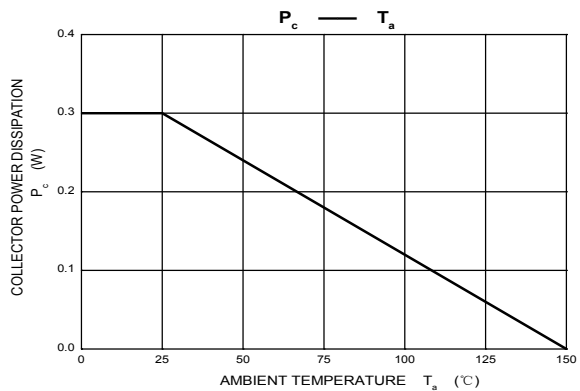
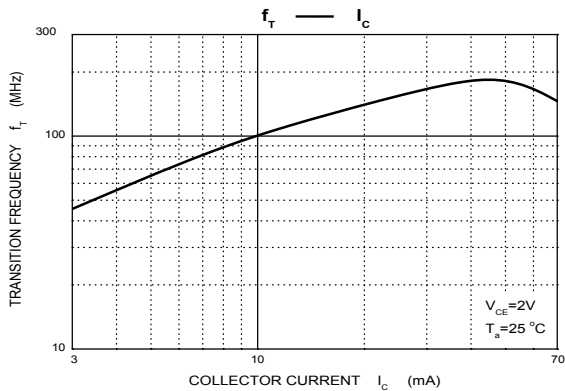
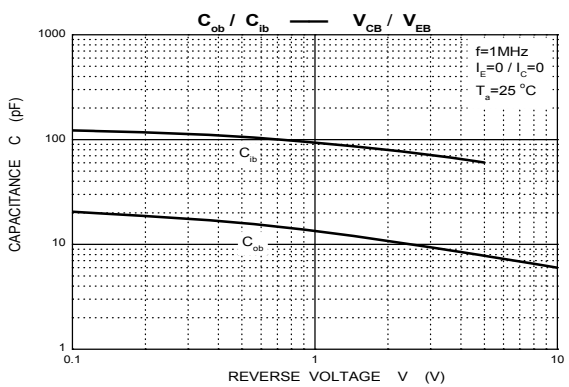
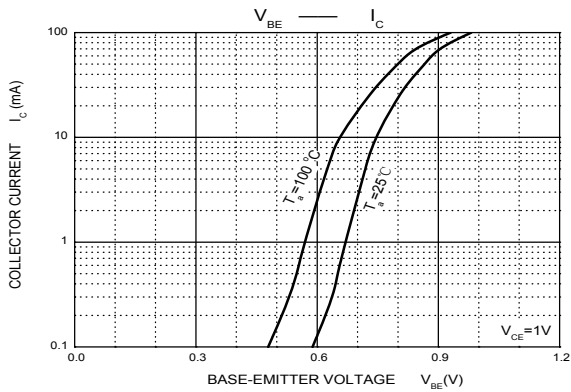
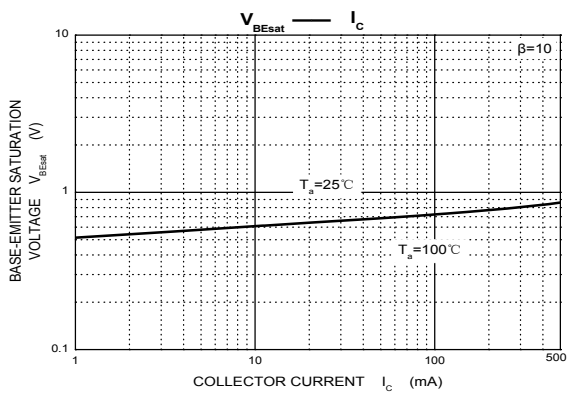
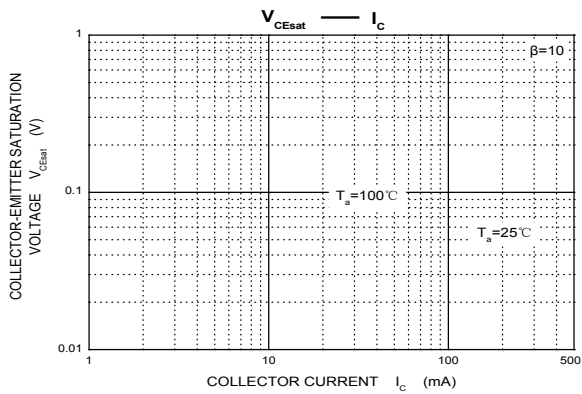
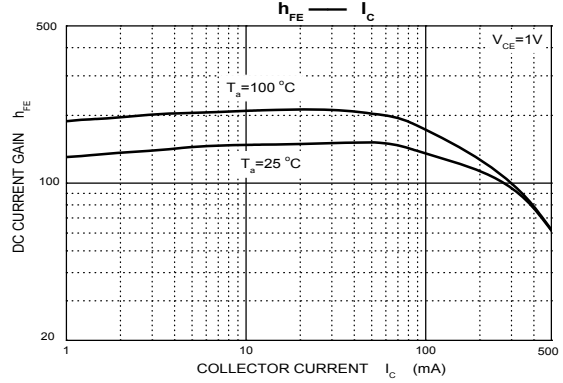
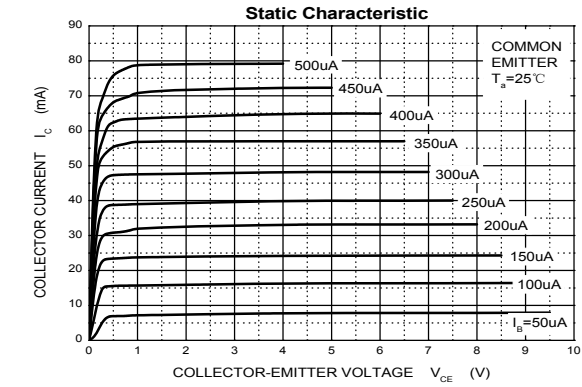
Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	80	V
Collector - Emitter Voltage	V _{CE0}	80	
Emitter - Base Voltage	V _{EB0}	4	
Collector Current - Continuous	I _c	500	mA
Collector Power Dissipation	P _c	300	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	416	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

MMBTA06

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _c = 100 μA, I _E = 0	80			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = 1 mA, I _B = 0	80			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100 μA, I _C = 0	4			
Collector-base cut-off current	I _{CB0}	V _{CB} = 80 V, I _E = 0			100	nA
Collector- emitter cut-off current	I _{CES}	V _{CE} = 60 V, I _E = 0			100	
Emitter cut-off current	I _{EBO}	V _{EB} = 3V, I _C =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100 mA, I _B =10mA			0.25	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =100 mA, I _B =10mA			1.2	
DC current gain	h _{FE(1)}	V _{CE} = 1V, I _C = 10mA	100		400	
	h _{FE(2)}	V _{CE} = 1V, I _C = 100mA	100			
Transition frequency	f _T	V _{CE} = 2V, I _C = 10mA,f=100MHz	100			MHz

RATING AND CHARACTERISTIC CURVES (MMBTA06)



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