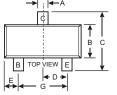
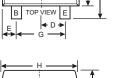
MMBTSB1197

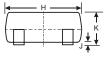
PNP SILICON EPITAXIAL PLANAR TRANSISTOR

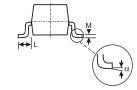
Features

- High current capacity in compact package.
- NPN complement:MMBTSD1781
- Pb-Free Package is available.









SOT-23				
Dim	Min	Max		
Α	0.37	0.51		
В	1.20	1.40		
С	2.30	2.50		
D	0.89	1.03		
Е	0.45	0.60		
G	1.78	2.05		
Н	2.80	3.00		
J	0.013	0.10		
K	0.903	1.10		
L	0.45	0.61		
M	0.085	0.180		
α	0°	8°		
All Dimensions in mm				

Maximum Ratings @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit	
Collector Base Voltage	V _{CBO}	-40	V	
Collector Emitter Voltage	V_{CEO}	-25	V	
Emitter Base Voltage	V _{EBO}	-6	V	
Collector Current	I _C	-800	mA	
Power Dissipation	P _{tot}	200	mW	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	T_{Stg}	- 55 to + 150	°C	

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	est conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-50μΑ, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-32			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -50μΑ, I _C =0	-5			٧
Collector cut-off current	I _{CBO}	V _{CB} =-20V,I _E =0			-0.5	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -4V,I _C =0			-0.5	μΑ
DC current gain	h _{FE}	V _{CE} =-3V,I _C = -100mA	120		390	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-500 mA, I _B = -50mA			-0.5	V
Transition frequency	f⊤	V _{CE} =-5V, I _C = -50mA, f=100MHz	50	20		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=1MHz		12	30	pF

CLASSIFICATION OF hfe

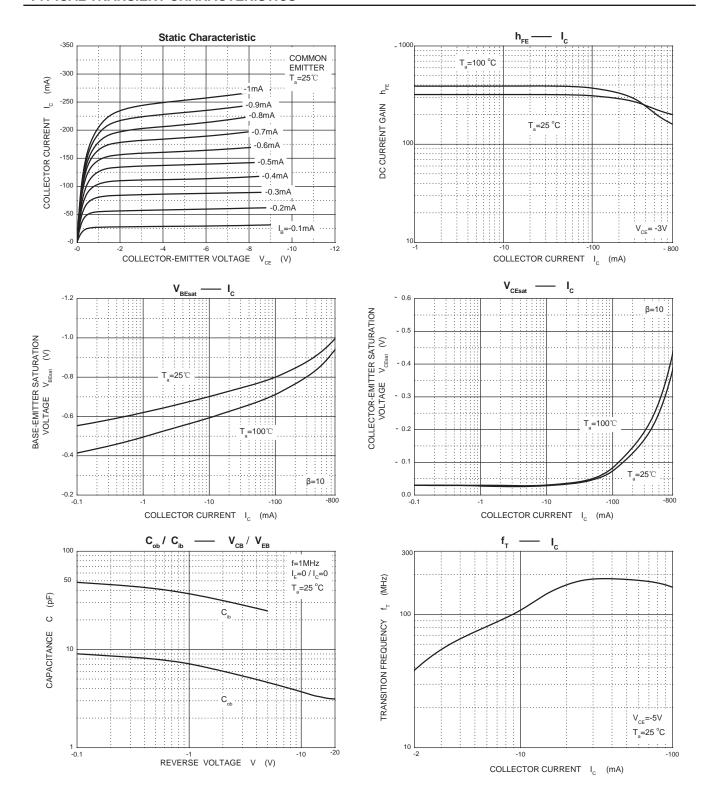
Rank	Q	R
Range	120-270	180-390
Marking	AHQ	AHR



MMBTSB1197

PNP SILICON EPITAXIAL PLANAR TRANSISTOR

TYPICAL TRANSIENT CHARACTERISTICS





MMBTSB1197

PNP SILICON EPITAXIAL PLANAR TRANSISTOR

IMPORTANT NOTICE

HC-SEMI reserves the right to make changes without further notice to any products herein.

HC-SEMI makes no warranty, representation or guarantee regarding

The suitability of its products for any particular purpose, nor does HC-SEMI assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages.

"Typical" parameters can and do vary in different applications. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts.

HC-SEMI products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the HC-SEMI product could create a situation where personal injury or death may occur.

Should Buyer purchase or use HC-SEMI products for any such unintended or unauthorized application, Buyer shall indemnify and hold HC-SEMI and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that HC-SEMI was negligent regarding the design or manufacture of the part.