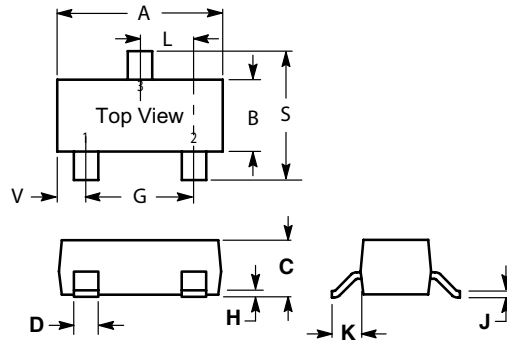
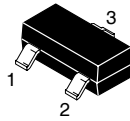
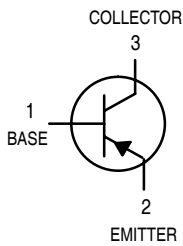


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Pb-free is available.
- Power dissipation & Collector current
Pcm: 0.3W Icm: -0.3A
- High voltage V_(BR): -300V



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

ELECTRICAL CHARACTERISTICS Tamb=25 °C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100µA, I _E =0	-300		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1 mA, I _B =0	-300		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100µA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-200 V, I _E =0		-0.25	µ A
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0		-0.1	µ A
DC current gain	H _{FE (1)}	V _{CE} = -10V, I _C = -1mA	60		
	H _{FE (2)}	V _{CE} = -10V, I _C =-10mA	100	200	
	H _{FE (3)}	V _{CE} =-10V, I _C =-30mA	60		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-20 mA, I _B = -2mA		-0.2	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -20 mA, I _B =-2mA		-0.9	V
Transition frequency	f _T	V _{CE} =-20V, I _C =-10mA f=30MHz	50		MHz

DEVICE MARKING

MMBTA92=2D

MMBTA92

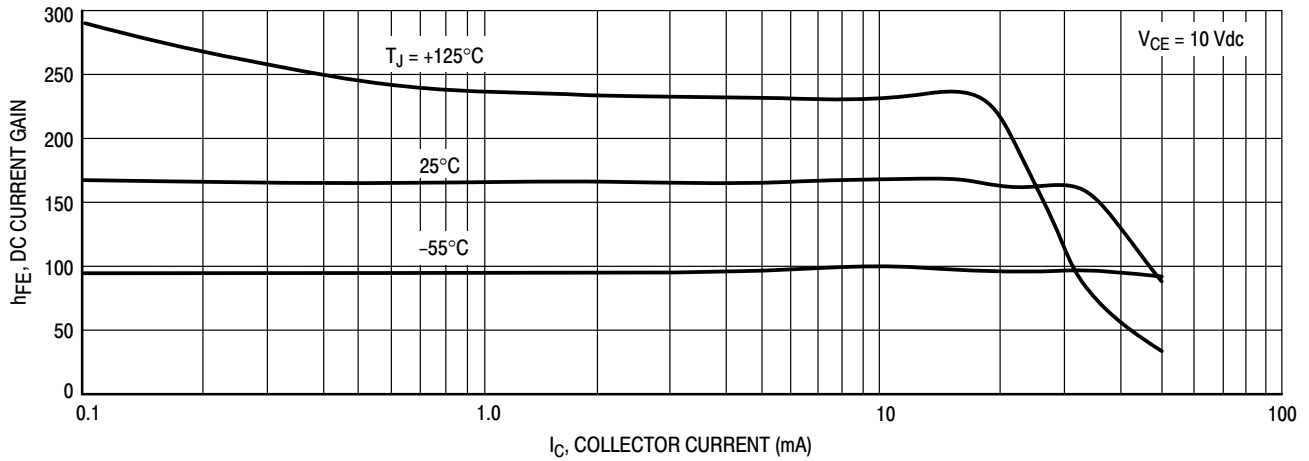


Figure 1. DC Current Gain

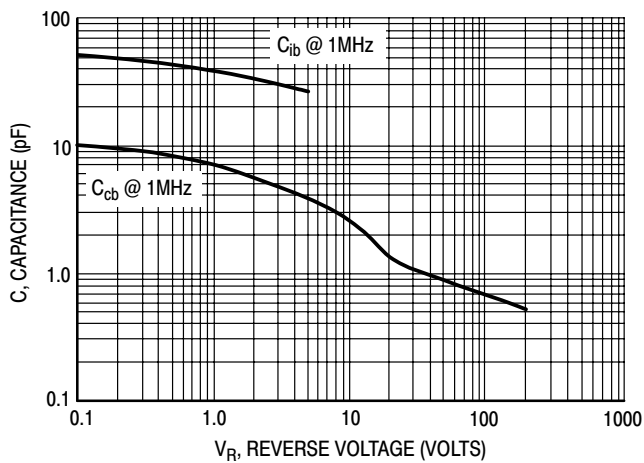


Figure 2. Capacitance

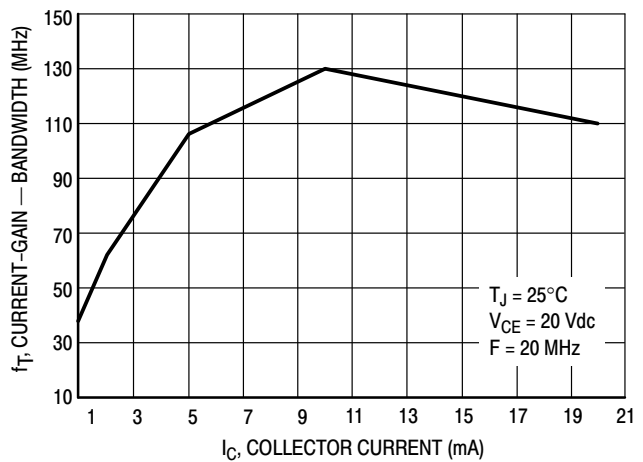


Figure 3. Current-Gain - Bandwidth

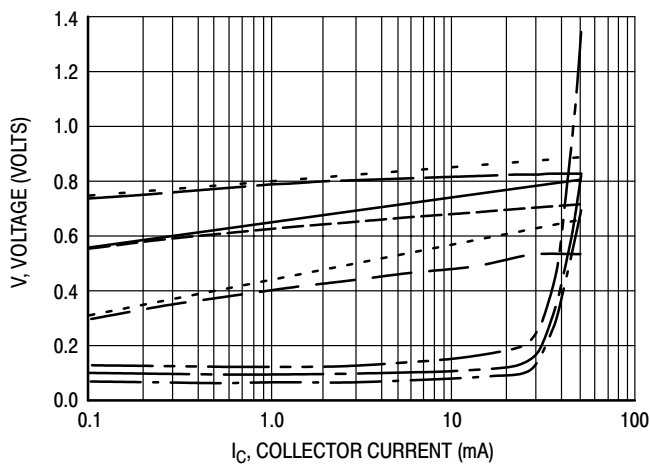


Figure 4. "ON" Voltages

- $V_{CE(sat)}$ @ 25°C , $I_C/I_B = 10$
- $V_{CE(sat)}$ @ 125°C , $I_C/I_B = 10$
- $V_{CE(sat)}$ @ -55°C , $I_C/I_B = 10$
- $V_{BE(sat)}$ @ 25°C , $I_C/I_B = 10$
- $V_{BE(sat)}$ @ 125°C , $I_C/I_B = 10$
- $V_{BE(sat)}$ @ -55°C , $I_C/I_B = 10$
- $V_{BE(on)}$ @ 25°C , $V_{CE} = 10 \text{ V}$
- $V_{BE(on)}$ @ 125°C , $V_{CE} = 10 \text{ V}$
- $V_{BE(on)}$ @ -55°C , $V_{CE} = 10 \text{ V}$