



HTIP117

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HTIP117 is designed for use in general purpose amplifier and low-speed switching applications.

Absolute Maximum Ratings (Ta=25°C)

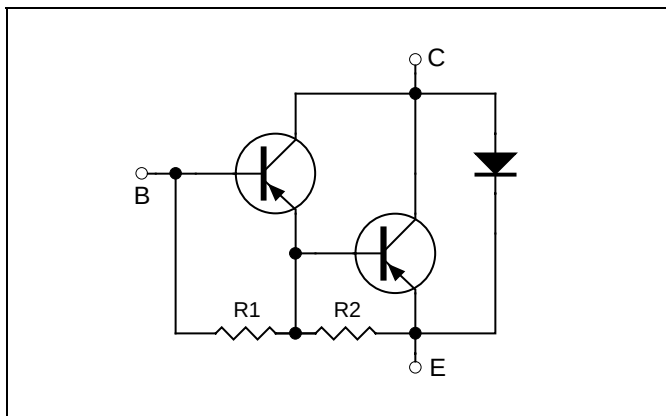
- Maximum Temperatures
Storage Temperature -55 ~ +150 °C
Junction Temperature +150 °C Maximum
- Maximum Power Dissipation
Total Power Dissipation (Tc=25°C)..... 50 W
Total Power Dissipation (Ta=25°C)..... 2 W
- Maximum Voltages and Currents
BVCBO Collector to Base Voltage -100 V
BVCEO Collector to Emitter Voltage -100 V
BVEBO Emitter to Base Voltage -5 V
IC Collector Current (Continue)..... -4 A
IC Collector Current (Peak)..... -6 A

Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-100	-	-	V	IC=-1mA
BVCEO	-100	-	-	V	IC=-30mA
ICBO	-	-	-1	mA	VCB=-100V
ICEO	-	-	-2	mA	VCE=-50V
IEBO	-	-	-2	mA	VEB=-5V
*VCE(sat)	-	-	-2.5	V	IC=-2A, IB=-8mA
*VBE(on)	-	-	-2.8	V	IC=-2A, VCE=-4V
*hFE1	1	-	-	K	IC=-1A, VCE=-4V
*hFE2	500	-	-		IC=-2A, VCE=-4V
Cob	-	-	200	pF	VCB=-10V, f=0.1MHz

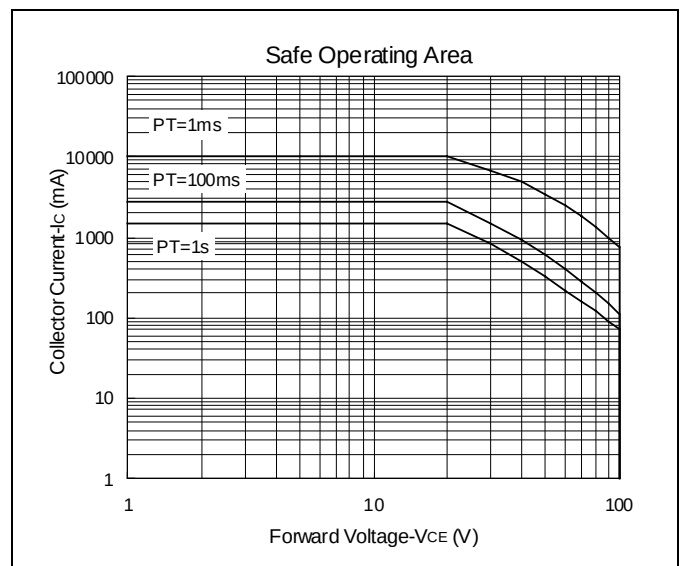
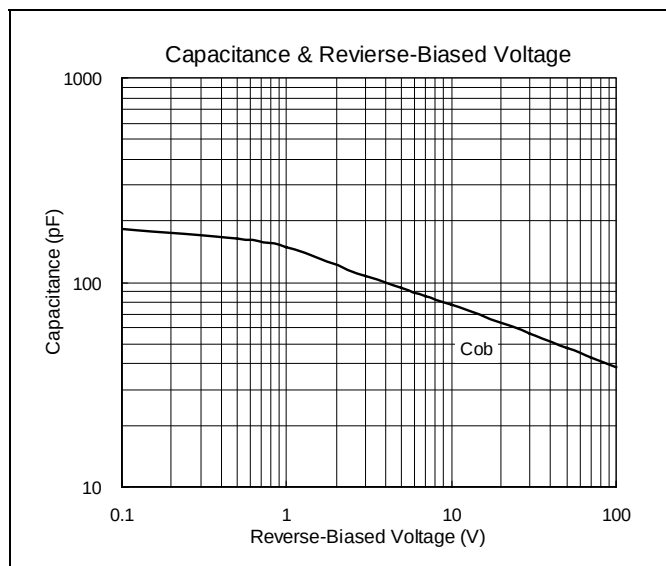
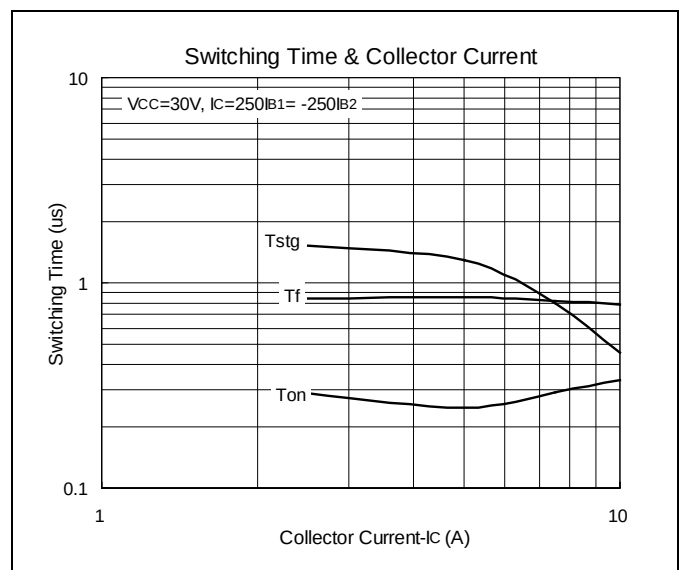
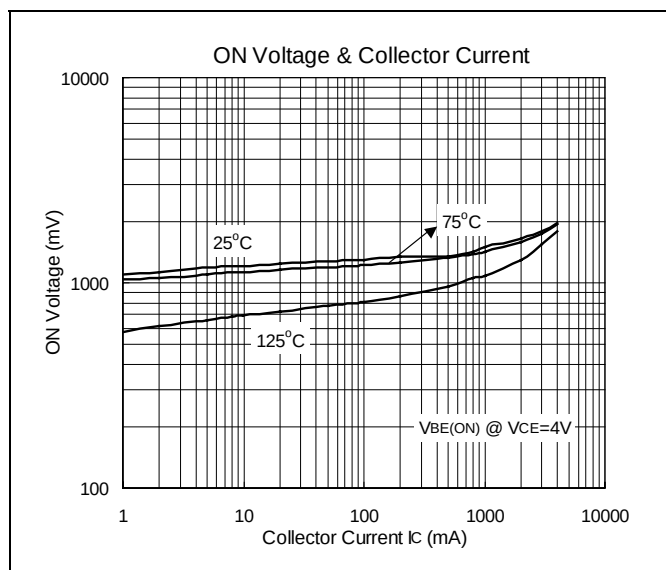
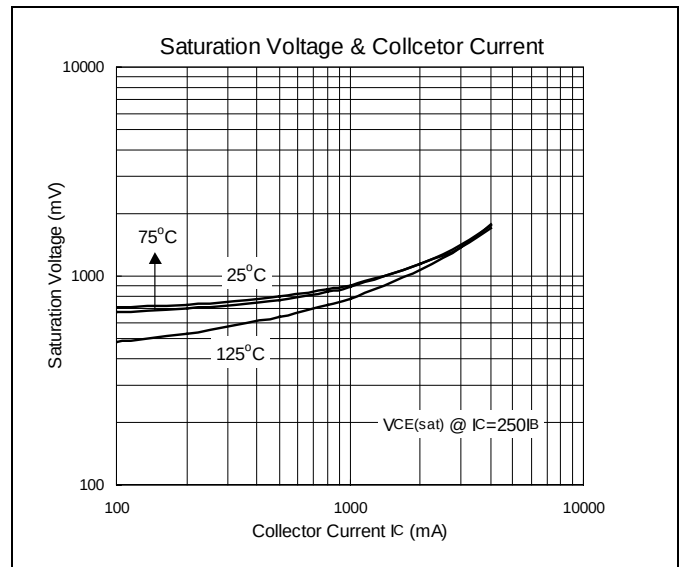
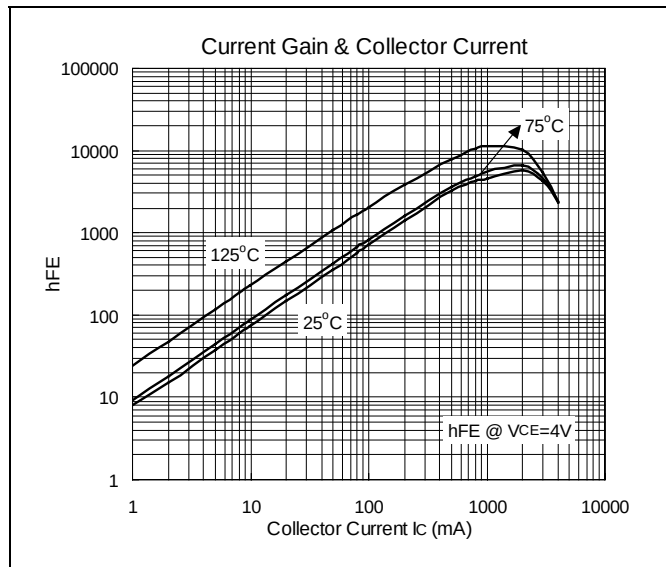
*Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

Darlington Schematic



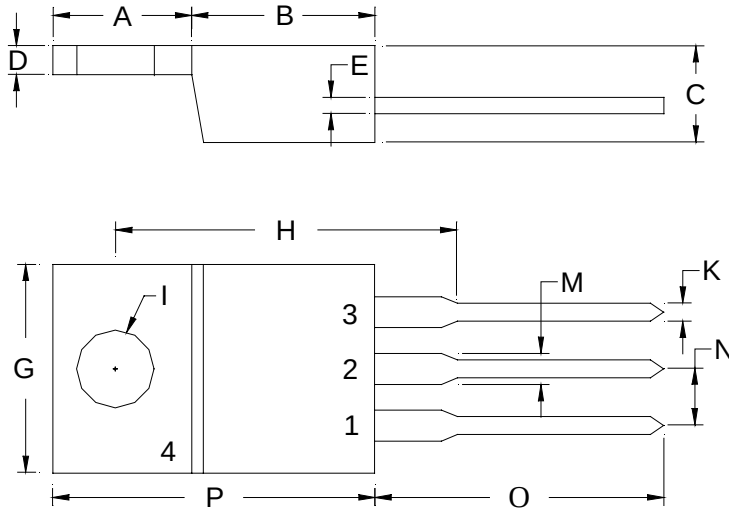


Characteristics Curve



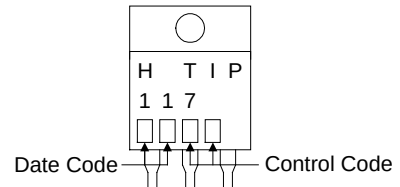


TO-220AB Dimension



3-Lead TO-220AB Plastic Package
HSMC Package Code: E

Marking:



Style: Pin 1.Base 2.Collector 3.Emitter

*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.2197	0.2949	5.58	7.49	I	-	*0.1508	-	*3.83
B	0.3299	0.3504	8.38	8.90	K	0.0295	0.0374	0.75	0.95
C	0.1732	0.185	4.40	4.70	M	0.0449	0.0551	1.14	1.40
D	0.0453	0.0547	1.15	1.39	N	-	*0.1000	-	*2.54
E	0.0138	0.0236	0.35	0.60	O	0.5000	0.5618	12.70	14.27
G	0.3803	0.4047	9.66	10.28	P	0.5701	0.6248	14.48	15.87
H	-	*0.6398	-	*16.25					

Notes: 1.Dimension and tolerance based on our Spec. dated Sep. 07,1997.

2.Controlling dimension: millimeters.

3.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.

4.If there is any question with packing specification or packing method, please contact your local HSMC sales office.

Material:

- Lead: 42 Alloy; solder plating
- Mold Compound: Epoxy resin family, flammability solid burning class: UL94V-0

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