

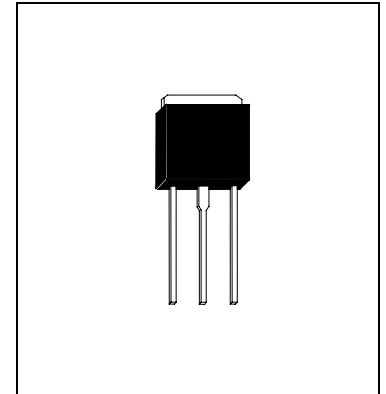


HI117

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HI117 is designed for use in general purpose amplifier and low-speed switching applications.



Absolute Maximum Ratings (Ta=25°C)

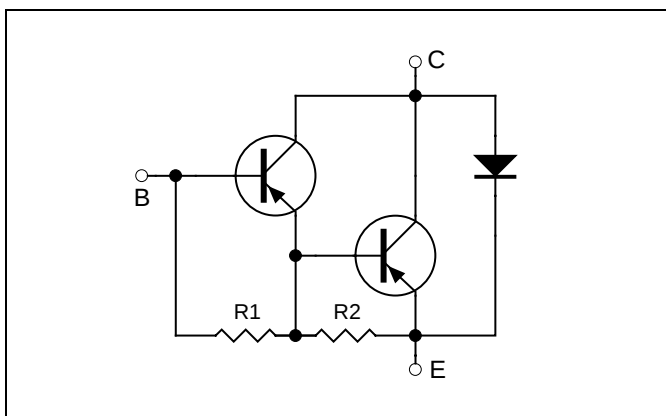
- Maximum Temperatures
 - Storage Temperature -55 ~ +150 °C
 - Junction Temperature +150 °C Maximum
- Maximum Power Dissipation
 - Total Power Dissipation (Tc=25°C) 25 W
- Maximum Voltages and Currents
 - BVCBO Collector to Base Voltage -100 V
 - BVCEO Collector to Emitter Voltage -100 V
 - BVEBO Emitter 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

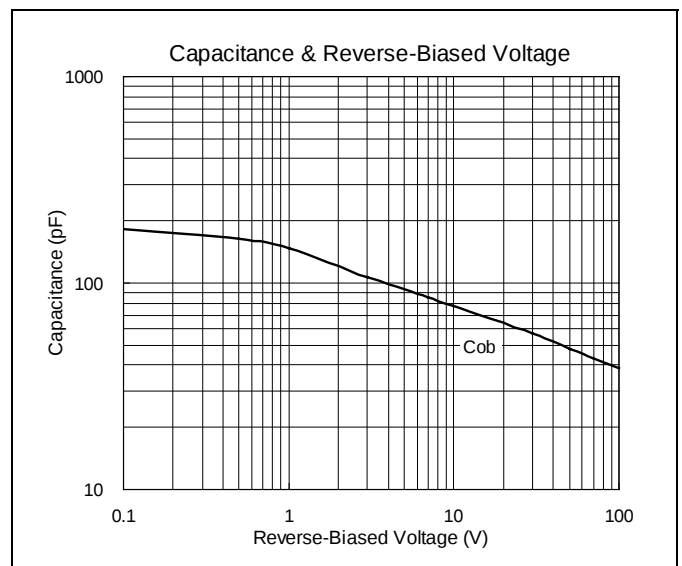
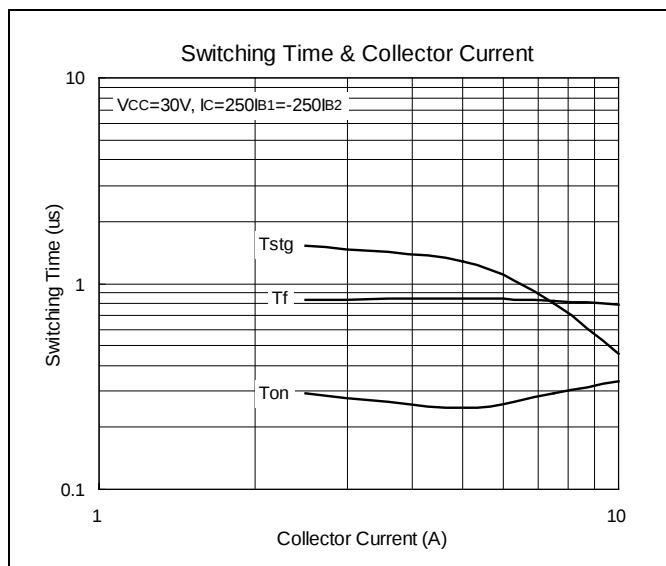
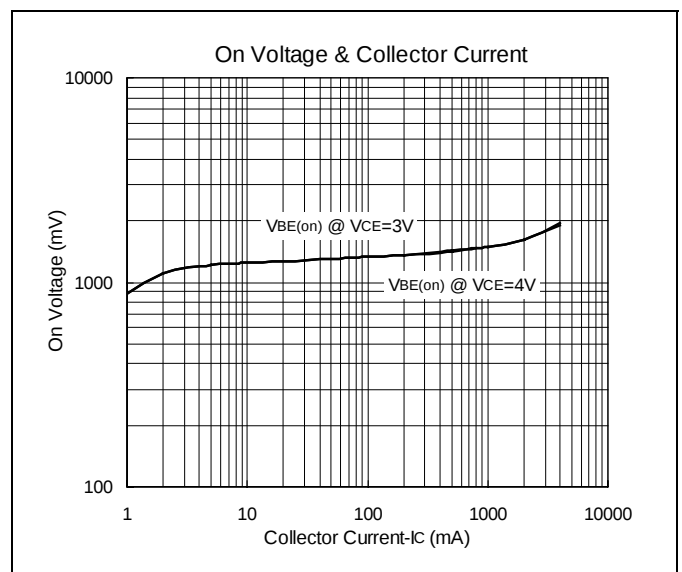
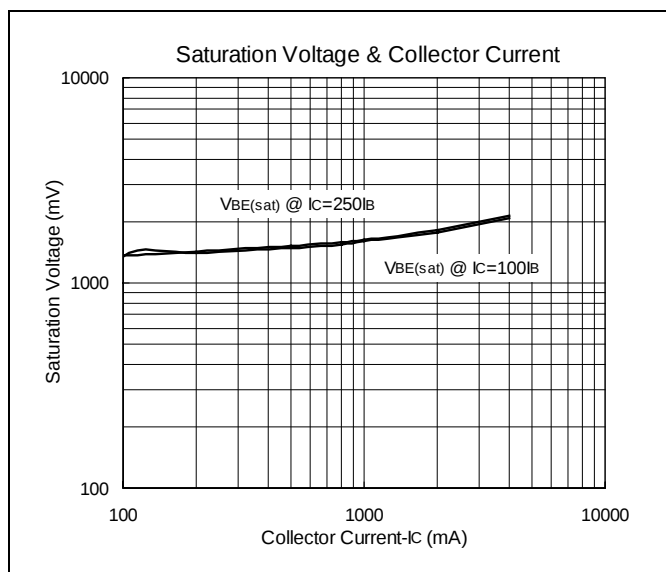
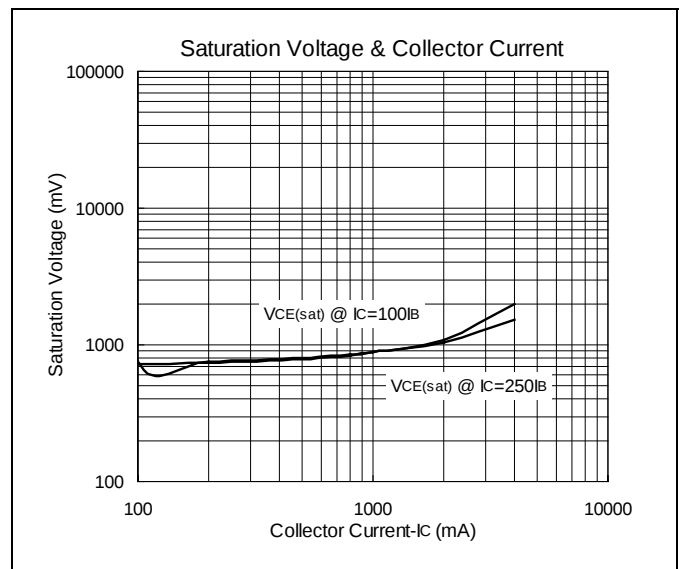
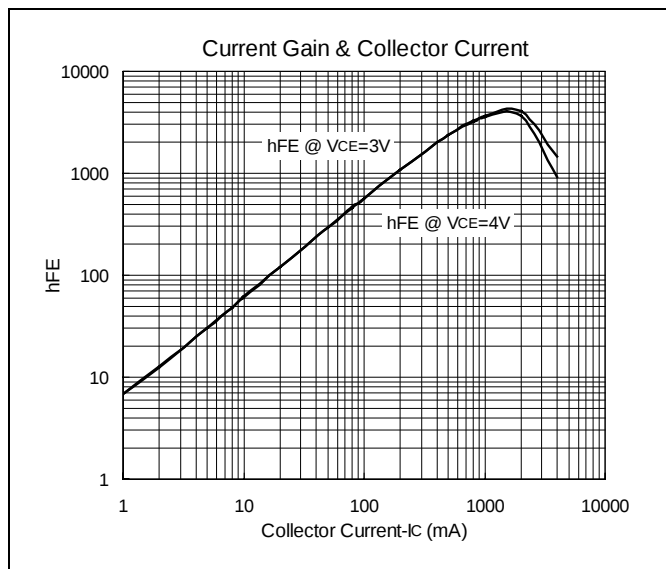
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

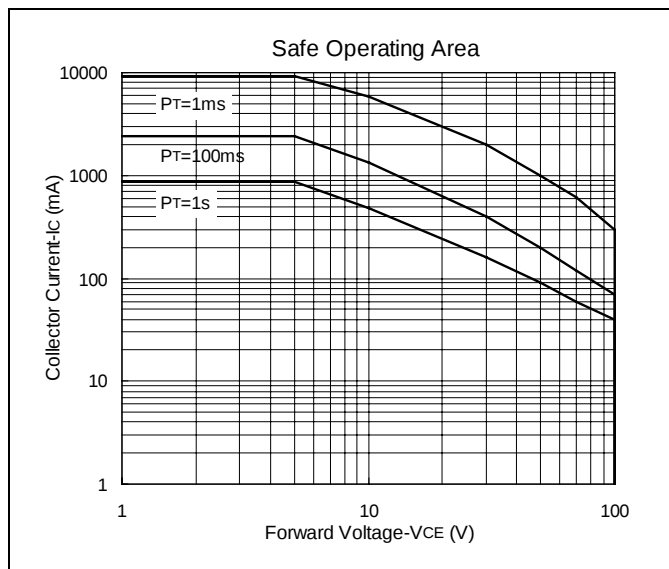
Darlington Schematic





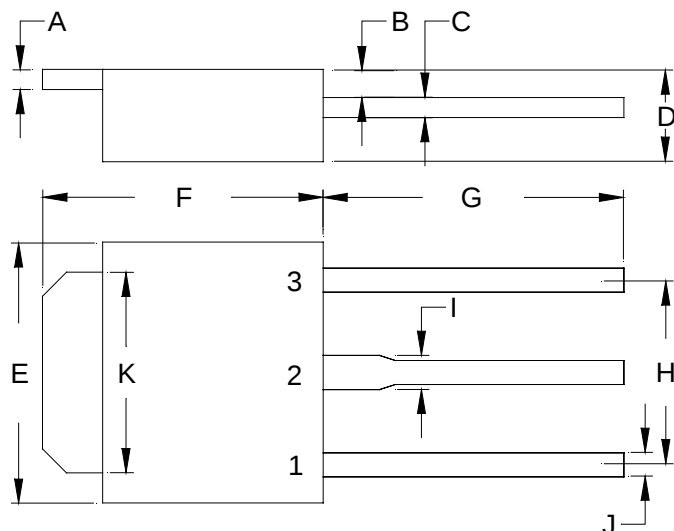
Characteristics Curve





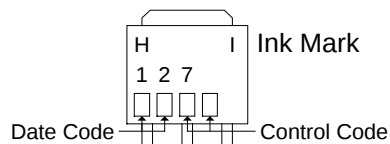


TO-251 Dimension



3-Lead TO-251 Plastic Package
HSMC Package Code : I

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	0.0177	0.0217	0.45	0.55	G	0.2559	-	6.50	-
B	0.0354	0.0591	0.90	1.50	H	-	*0.1811	-	*4.60
C	0.0177	0.0236	0.45	0.60	I	-	0.0354	-	0.90
D	0.0866	0.0945	2.20	2.40	J	-	0.0315	-	0.80
E	0.2520	0.2677	6.40	6.80	K	0.2047	0.2165	5.20	5.50
F	0.2677	0.2835	6.80	7.20					

Notes : 1.Dimension and tolerance based on our Spec. dated May. 24,1995.

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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