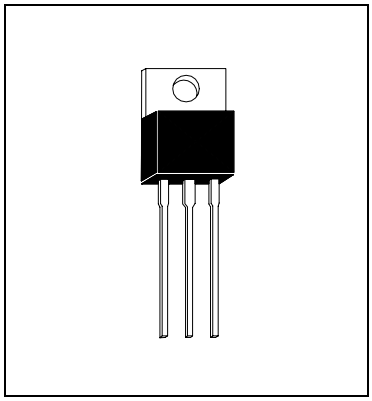
HTIP49

NPN EPITAXIAL PLANAR TRANSISTOR



Description

The HTIP49 is designed for high voltage and switching applications.

Absolute Maximum Ratings (Ta=25°C)

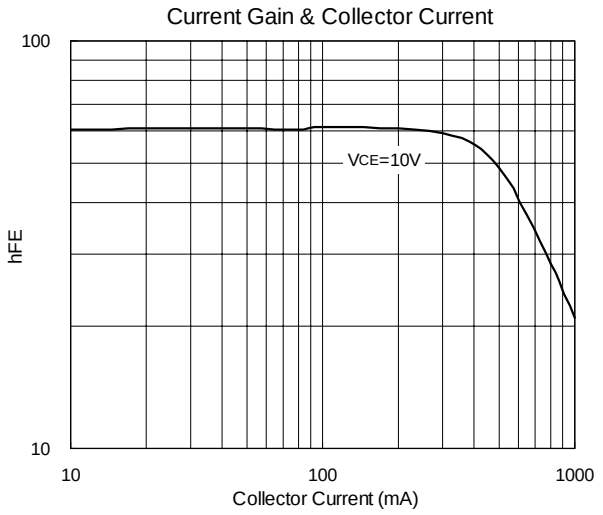
- Maximum Temperatures
  Storage Temperature ..... -50 ~ +150 °C
  Junction Temperature ..... +150 °C Maximum
- Maximum Power Dissipation
  Total Power Dissipation (Tc=25°C) ..... 40 W
- Maximum Voltages and Currents
  BVCBO Collector to Base Voltage ..... 450 V
  BVCEO Collector to Emitter Voltage ..... 350 V
  BVEBO Emitter to Base Voltage ..... 5 V
  IC Collector Current ..... 1 A

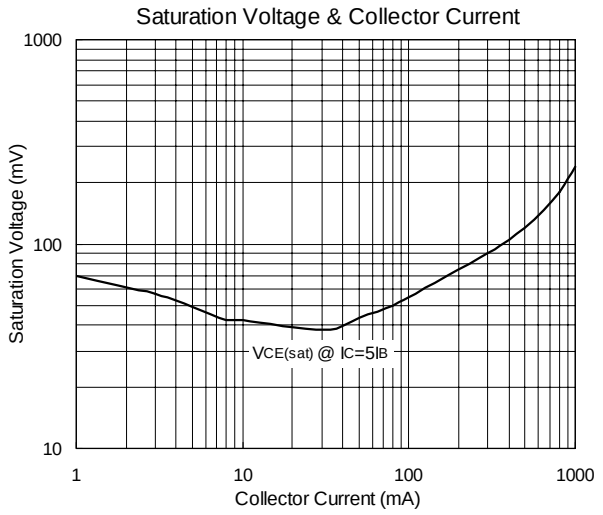
Characteristics (Ta=25°C)

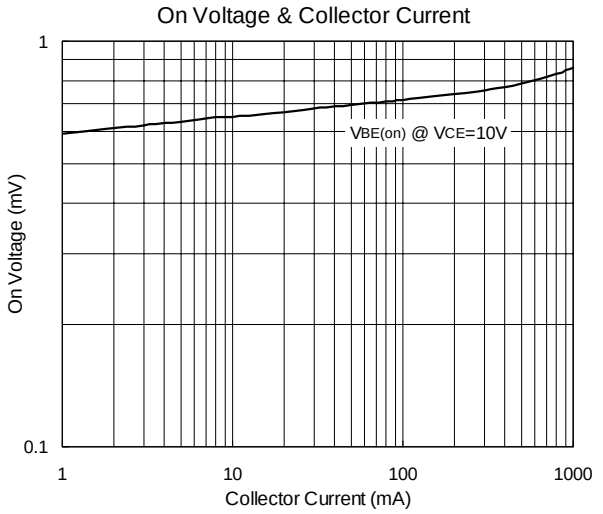
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	450	-	-	V	IC=1mA
BVCEO	350	-	-	V	IC=30mA
BVEBO	5	-	-	V	IE=0.1mA
IEBO	-	-	1	mA	VEB=5V
ICEO	-	-	1	mA	VCE=250V
ICES	-	-	1	mA	VCE=450V
*VCE(sat)	-	-	1	V	IC=1A, IB=0.2A
VBE(on)	-	-	1.5	V	IC=1A, VCE=10V
*hFE1	30	-	150		IC=0.3A, VCE=10V
*hFE2	10	-	-		IC=1A, VCE=10V
fT	10	-	-	MHz	IC=0.2A, VCB=10V, f=2KHz

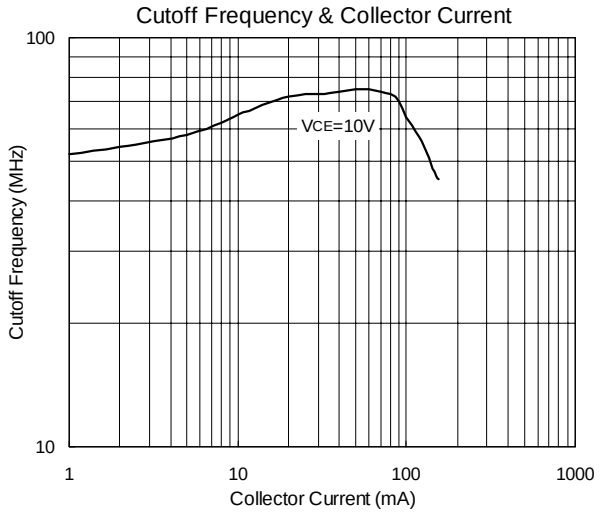
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

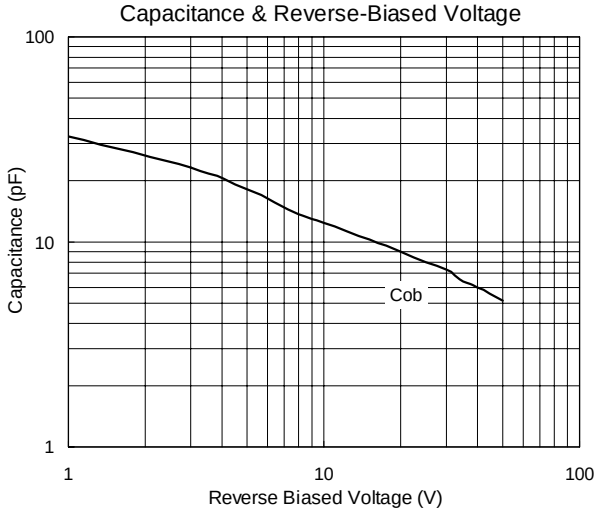
Characteristics Curve

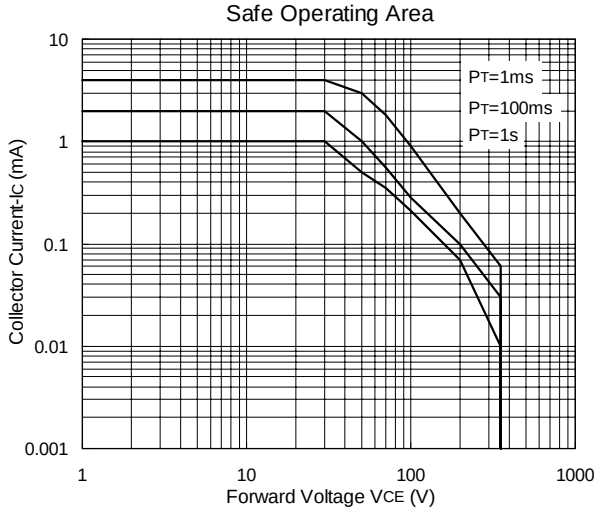




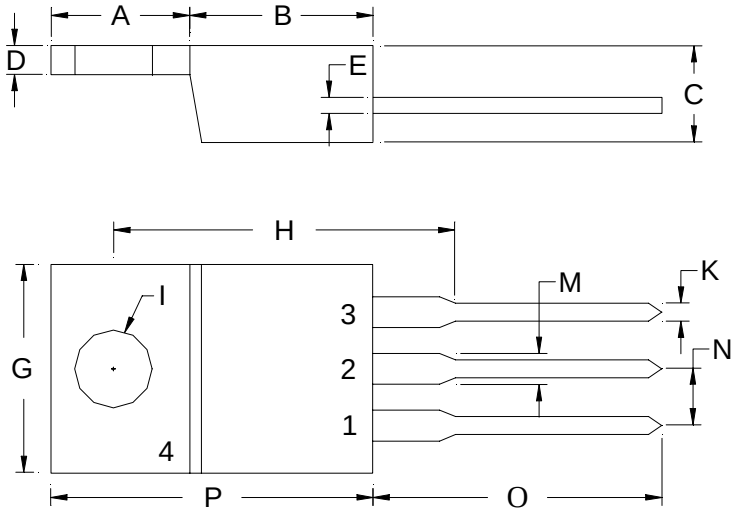


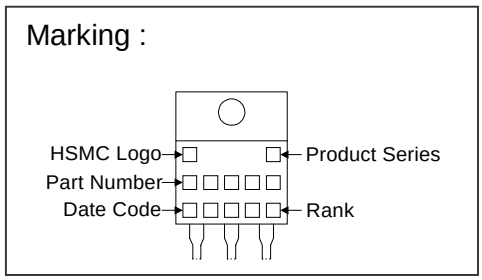






TO-220AB Dimension





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

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

*: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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