

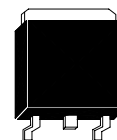


HJ47

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HJ47 is designed for high voltage switch 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) 20 W
- Maximum Voltages and Currents
BVCBO Collector to Base Voltage 350 V
BVCEO Collector to Emitter Voltage 250 V
BVEBO Emitter to Base Voltage 5 V
IC Collector Current 1 A

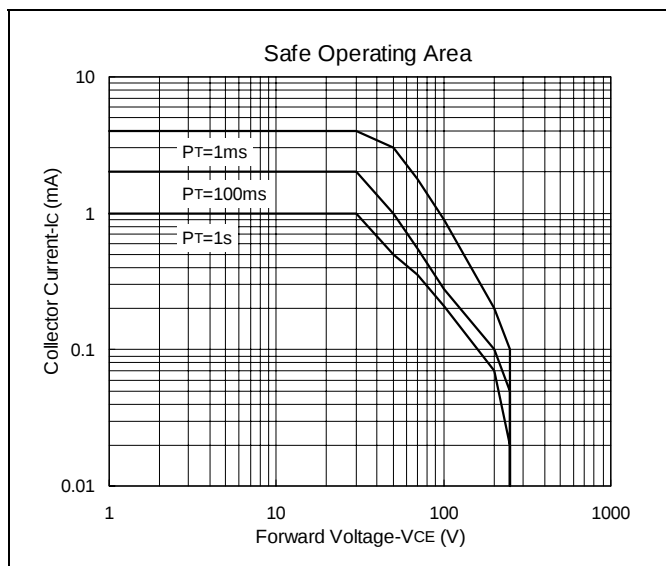
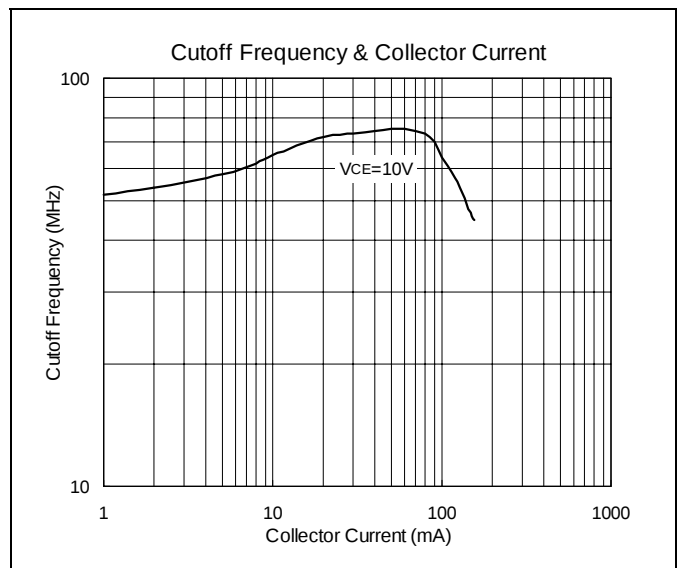
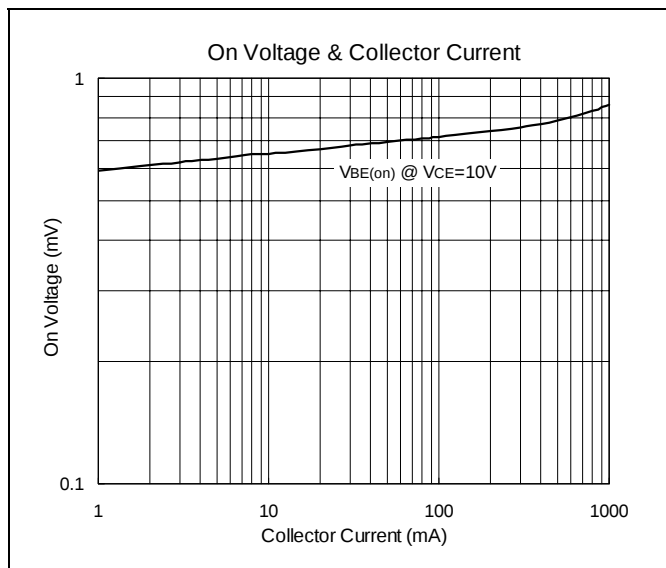
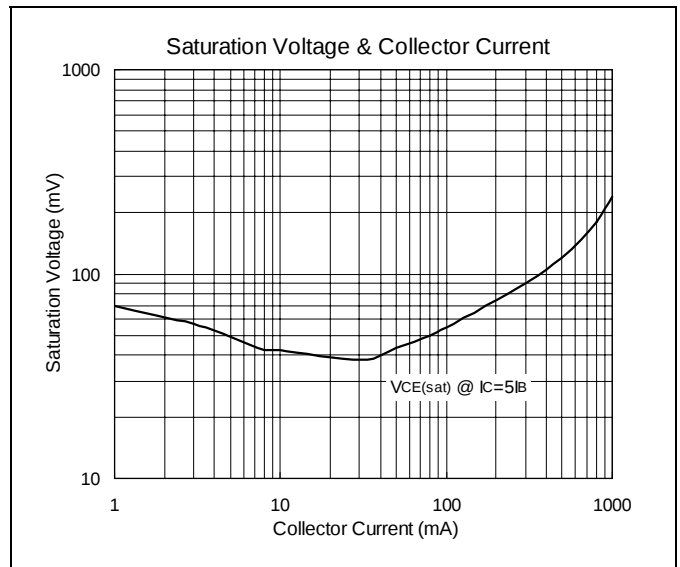
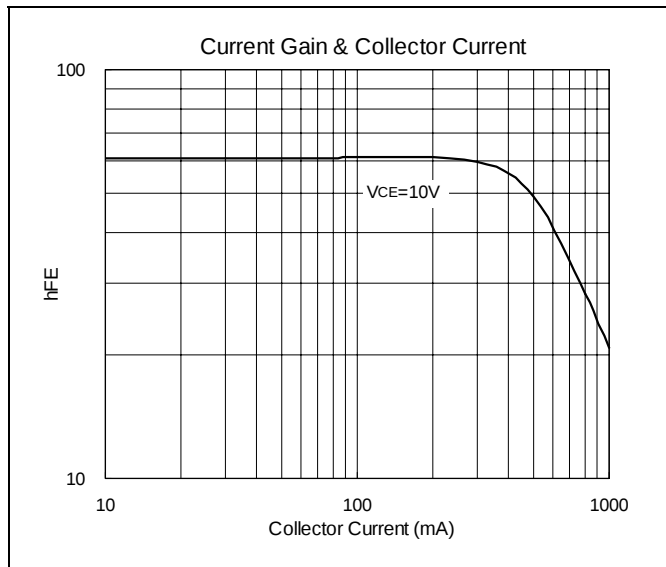
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	350	-	-	V	IC=1mA
BVCEO	250	-	-	V	IC=30mA
BVEBO	5	-	-	V	IE=0.1mA
IEBO	-	-	1	mA	VEB=5V
ICEO	-	-	0.2	mA	VCE=150V
ICES	-	-	0.1	mA	VCE=350V
*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, VCE=10V, f=2MHz

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

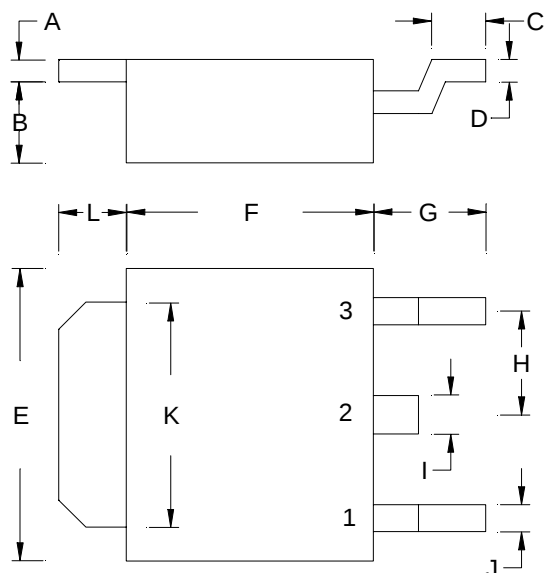


Characteristics Curve



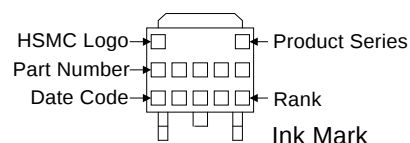


TO-252 Dimension



3-Lead TO-252 Plastic Surface Mount Package
HSMC Package Code : J

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	0.0866	0.1102	2.20	2.80
B	0.0650	0.0768	1.65	1.95	H	-	*0.0906	-	*2.30
C	0.0354	0.0591	0.90	1.50	I	-	0.0354	-	0.90
D	0.0177	0.0236	0.45	0.60	J	-	0.0315	-	0.80
E	0.2520	0.2677	6.40	6.80	K	0.2047	0.2165	5.20	5.50
F	0.2125	0.2283	5.40	5.80	L	0.0551	0.0630	1.40	1.60

Notes : 1.Dimension and tolerance based on our Spec. dated May. 05,1996.
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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Head Office And Factory :

- **Head Office** (Hi-Sincerity Microelectronics Corp.) : 10F.,No. 61, Sec. 2, Chung-Shan N. Rd. Taipei Taiwan R.O.C.
Tel : 886-2-25212056 Fax : 886-2-25632712, 25368454
- **Factory 1** : No. 38, Kuang Fu S. Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C
Tel : 886-3-5983621~5 Fax : 886-3-5982931
- **Factory 2** : No. 17-1, Ta-Tung Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C
Tel : 886-3-5977061 Fax : 886-3-5979220