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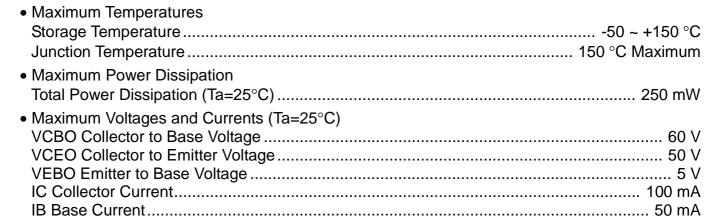
HSC945

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HSC945 is designed for using driver stage of AP amplifier and low speed switching applications.

Absolute Maximum Ratings



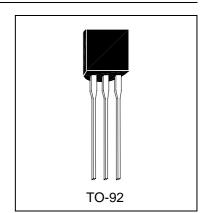
Characteristics (Ta=25°C)

Symbol	Min.	Тур.	Max.	Unit	Test Conditions	
BVCBO	60	-	-	V	IC=100uA, IE=0	
BVCEO	50	-	-	V	IC=1mA. IB=0	
BVEBO	5	-	-	V	IE=10uA. IC=0	
ICBO	1	-	100	nA	VCB=60V, IE=0	
IEBO	-	-	100	nA	VEB=5V, IB=0	
*VCE(sat)	1	0.1	0.3	V	IC=100mA, IB=10mA	
*hFE1	50	-	-		VCE=6V, IC=0.1mA	
*hFE2	135	-	600		VCE=6V, IC=1mA	
fT	150	-	600	MHz	VCE=6V, IC=10mA, f=100MHz	
Cob	-	-	4	pF	VCB=10V, f=1MHz, IE=0	

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

Classification of hFE2

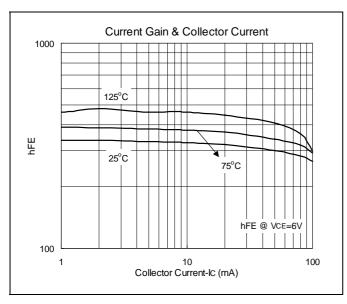
Rank	Q	Р	K		
Range	135-270	200-400	300-600		

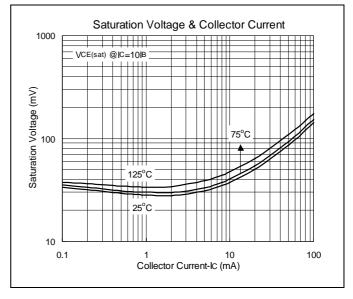


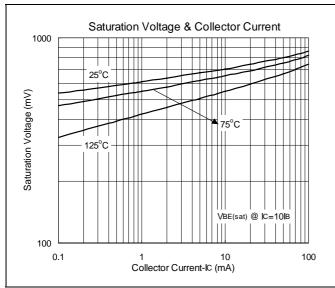
Spec. No. : HE6517 Issued Date : 1995.02.11 Revised Date : 2002.12.16

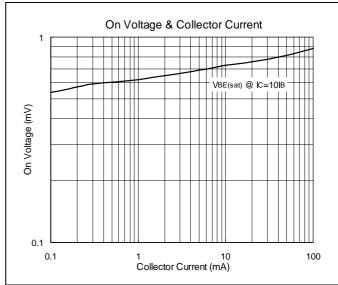
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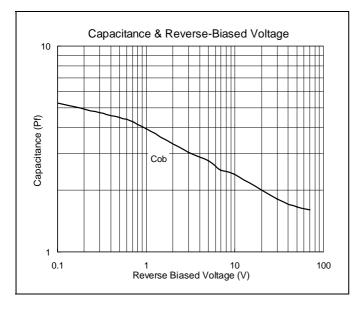
Characteristics Curve

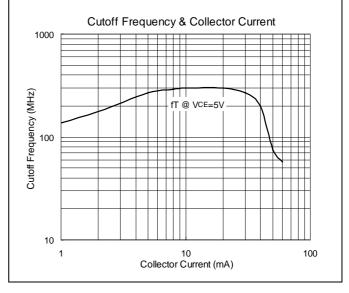




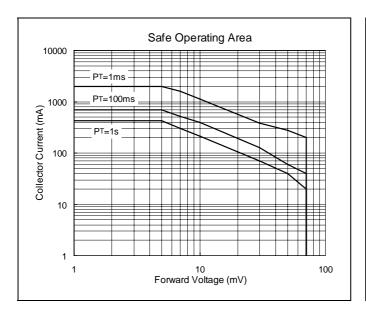


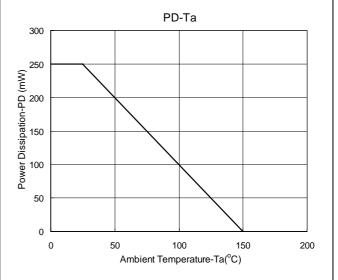






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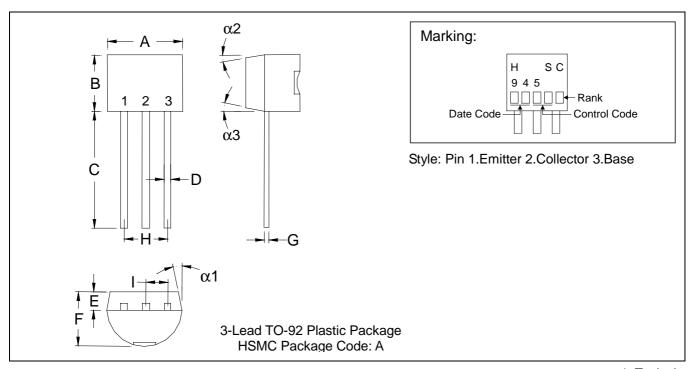




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TO-92 Dimension



*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.	וווט	Min.	Max.	Min.	Max.
Α	0.1704	0.1902	4.33	4.83	G	0.0142	0.0220	0.36	0.56
В	0.1704	0.1902	4.33	4.83	Н	-	*0.1000	-	*2.54
С	0.5000	-	12.70	ı		-	*0.0500	-	*1.27
D	0.0142	0.0220	0.36	0.56	α1	-	*5°	-	*5°
Ē	-	*0.0500	-	*1.27	α2	-	*2°	-	*2°
F	0.1323	0.1480	3.36	3.76	α3	-	*2°	-	*2°

Notes: 1.Dimension and tolerance based on our Spec. dated Apr. 25,1996.

- 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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