



HJ1538

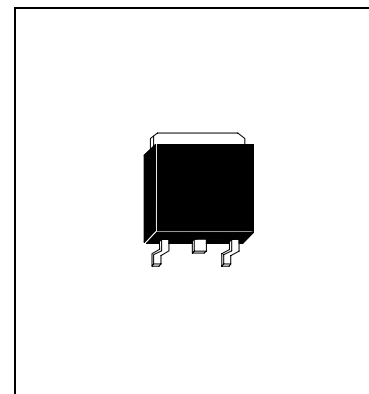
PNP EPITAXIAL PLANAR TRANSISTOR

Description

High-definition CRT display video output, wide-band amp.

Features

- High f_T : $f_T=400\text{MHz}$
- High breakdown voltage: $V_{CEO}=-120\text{Vmin}$
- Small reverse transfer capacitance and excellent HF response



Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

- Maximum Temperatures
Storage Temperature $-55 \sim +150^\circ\text{C}$
Junction Temperature $+150^\circ\text{C}$
- Maximum Power Dissipation
Total Power Dissipation ($T_c=25^\circ\text{C}$) 1.3 W
- Maximum Voltages and Currents
BVCBO Collector to Base Voltage -120 V
BVCEO Collector to Emitter Voltage -120 V
BVEBO Emitter to Base Voltage -3 V
IC Collector Current -100 mA
IC Peak Collector Current -100 mA

Characteristics ($T_a=25^\circ\text{C}$)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-120	-	-	V	$I_C=-10\mu\text{A}$, $I_E=0$
BVCEO	-120	-	-	V	$I_C=-1\text{mA}$, $I_B=0$
BVEBO	-3	-	-	V	$I_E=-100\mu\text{A}$, $I_C=0$
ICBO	-	-	-100	nA	$V_{CB}=-80\text{V}$
IEBO	-	-	-100	nA	$V_{EB}=-2\text{V}$
* $V_{CE}(\text{sat})$	-	-	-1	V	$I_C=-30\text{mA}$, $I_B=-3\text{mA}$
* $V_{BE}(\text{sat})$	-	-	-1	V	$I_C=-30\text{mA}$, $I_B=-3\text{mA}$
* h_{FE1}	60	160	320		$V_{CE}=-10\text{V}$, $I_C=-10\text{mA}$
* h_{FE2}	40	-	-		$V_{CE}=-10\text{V}$, $I_C=-100\text{mA}$
f_T	400	-	-	MHz	$V_{CE}=-10\text{V}$, $I_C=-50\text{mA}$
Cob	2.8	-	-	pF	$V_{CB}=-30\text{V}$, $f=1\text{MHz}$

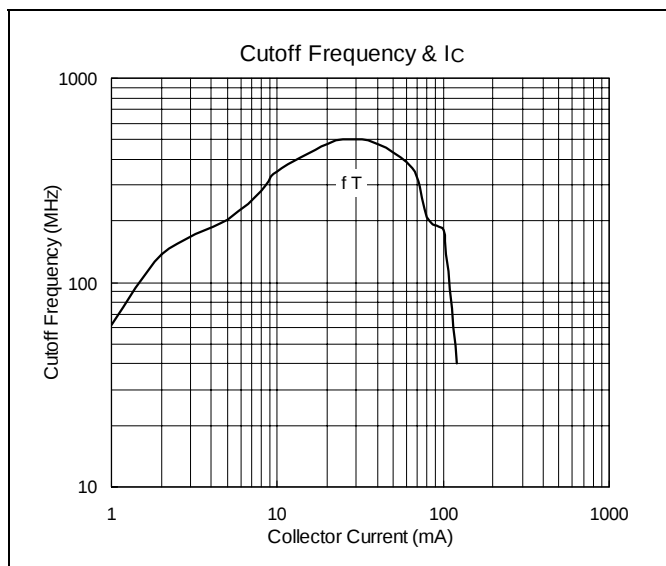
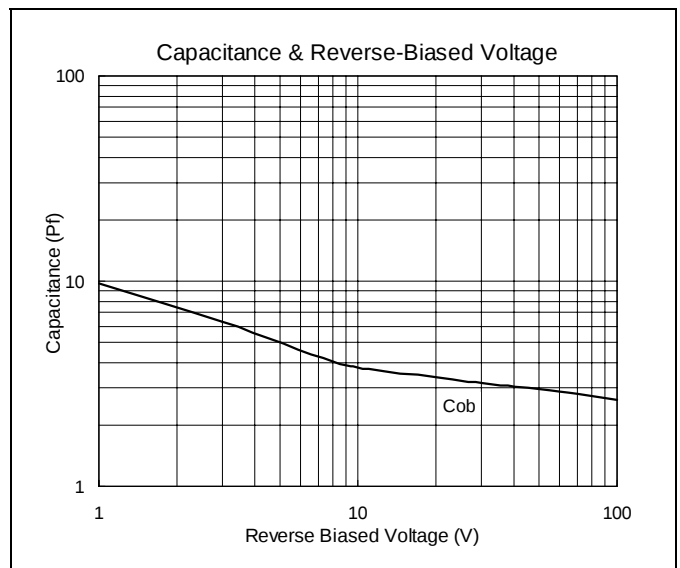
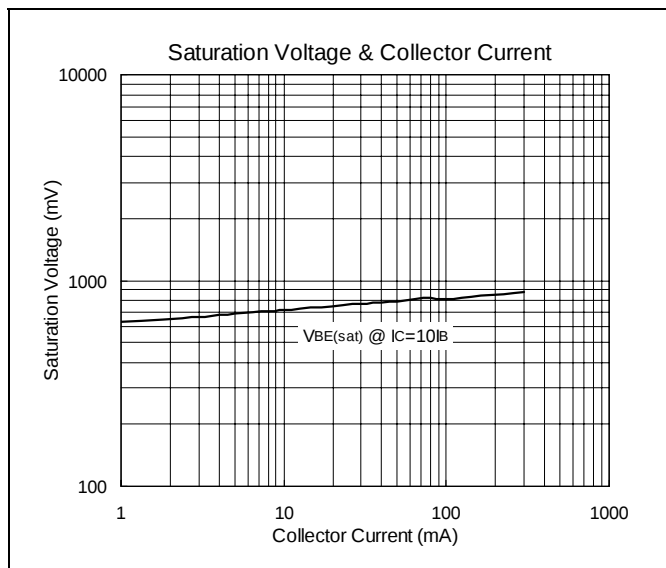
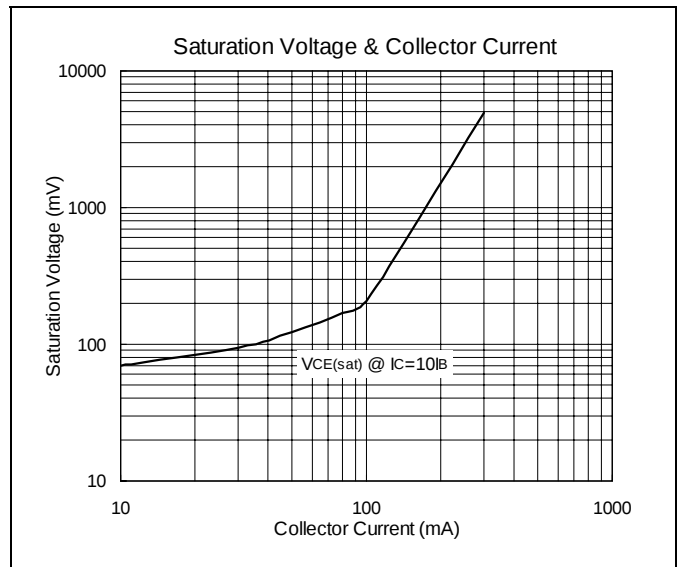
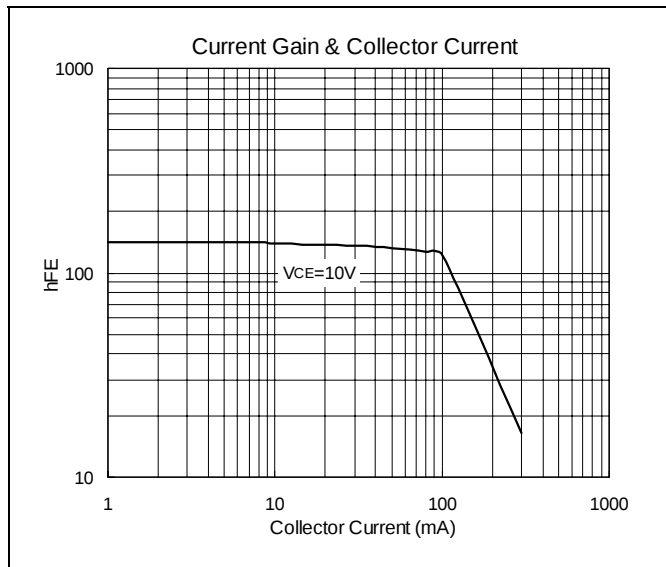
*Pulse Test : Pulse Width $\leq 380\mu\text{s}$, Duty Cycle $\leq 2\%$

Classification Of h_{FE1}

Rank	D	E	F
Range	60-120	100-200	160-320

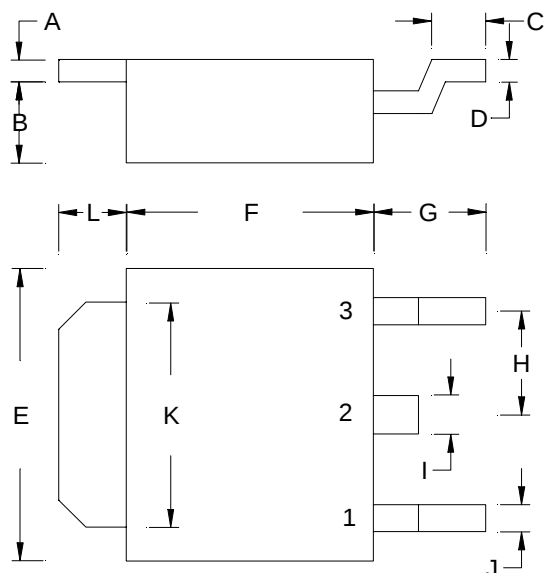


Characteristics Curve



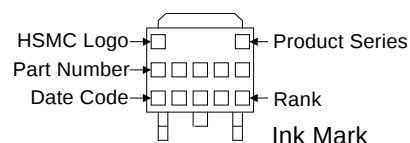


TO-252 Dimension



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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