

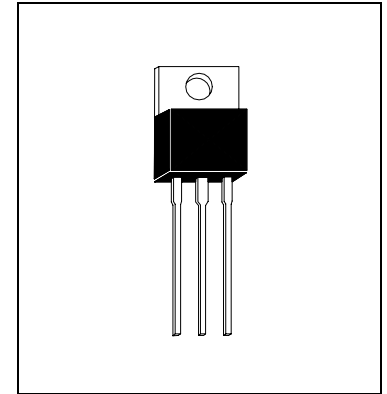


HMJE3055T

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HMJE3055T is designed for general purpose of amplifier and switching applications.



Absolute Maximum Ratings (Ta=25°C)

- Maximum Temperature
 Storage Temperature -55 ~ +150 °C
 Junction Temperature 150 °C Maximum
- Maximum Power Dissipation
 Total Power Dissipation (Tc=25°C) 75 W
 Total Power Dissipation (Ta=25°C) 0.6 W
- Maximum Voltages and Currents (Ta=25°C)
 BVCBO Collector to Base Voltage 70 V
 BVCEO Collector to Emitter Voltage 60 V
 BVEBO Emitter to Base Voltage 5 V
 IC Collector Current 10 A
 IB Base Current 6 A

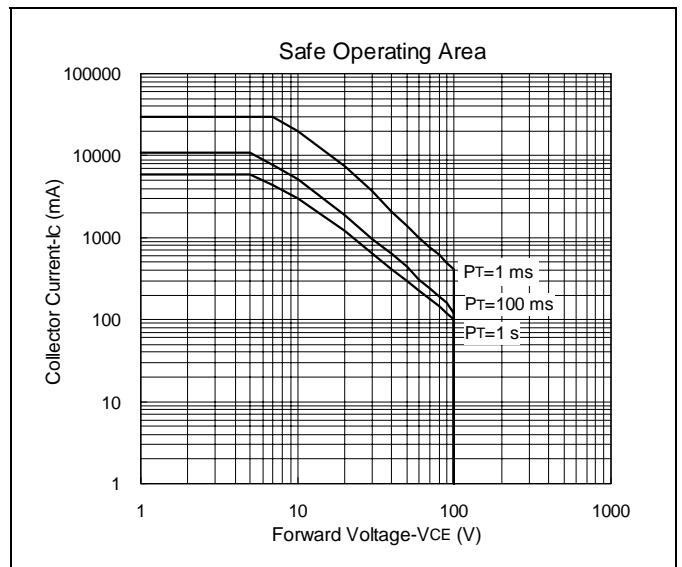
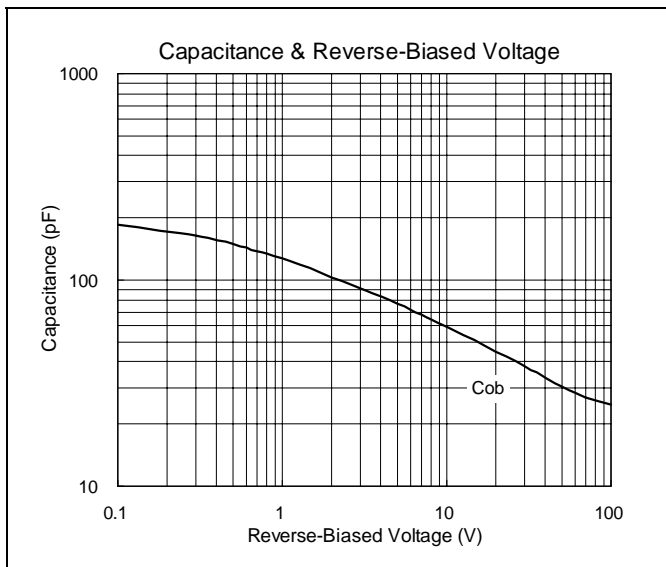
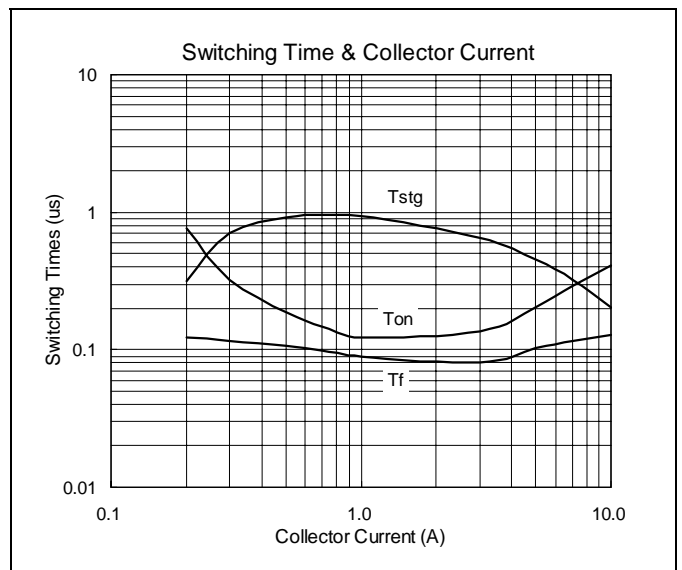
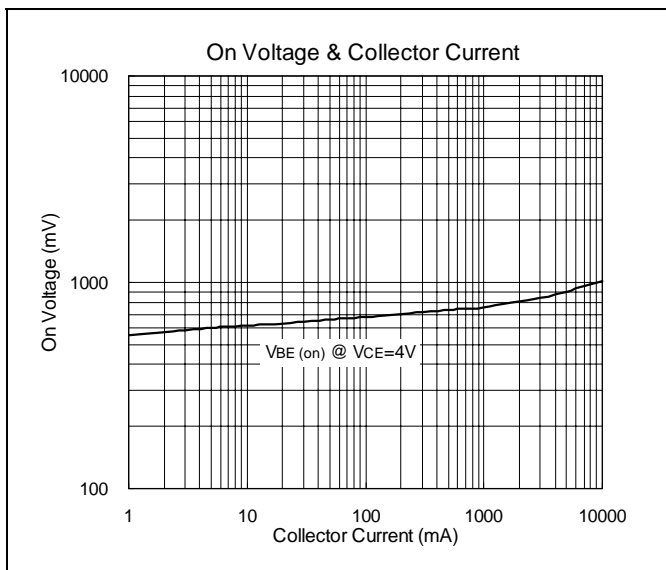
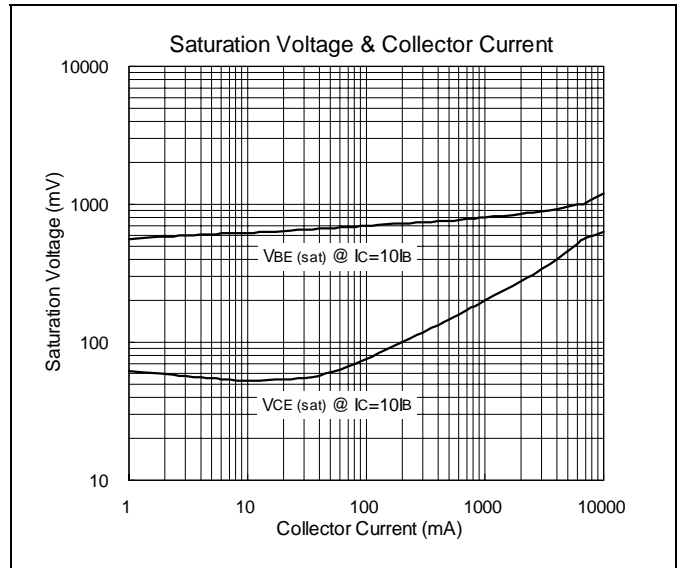
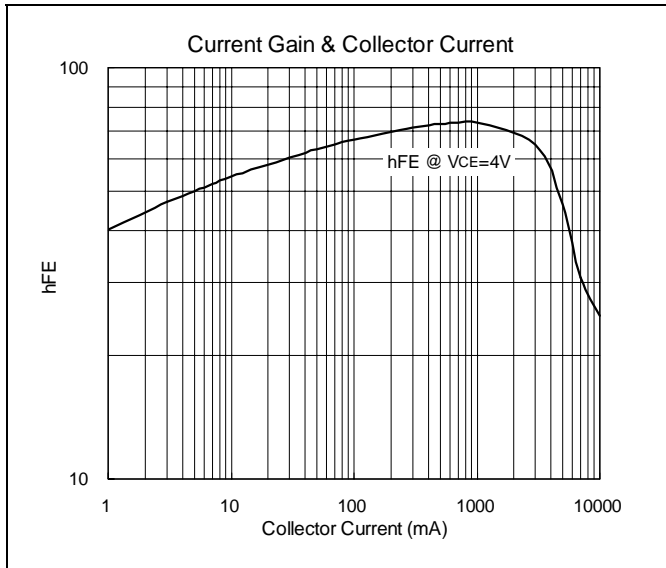
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCEO	60	-	-	V	IC=200mA, IB=0
BVCBO	70	-	-	V	IC=10mA, IE=0
BVEBO	5	-	-	V	IE=10mA, IC=0
ICBO	-	-	1.	mA	VCB=70V, IE=0
ICEX	-	-	1.	mA	VCE=70V, VEB(off)=1.5V
ICEO	-	-	700	uA	VCE=30V, IB=0
IEBO	-	-	5	mA	VEB=5V, IC=0
*VCE(sat)1	-	-	1.1	V	IC=4A, IB=400mA
*VCE(sat)2	-	-	8.0	V	IC=10A, IB=3.3A
*VBE(on)	-	-	1.8	V	IC=4A, VCE=4V
*hFE1	20	-	100		IC=4A, VCE=4V
*hFE2	5	-	-		IC=10A, VCE=4V
fT	2	-	-	MHz	VCE=10V, IC=500mA, f=0.5MHz

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

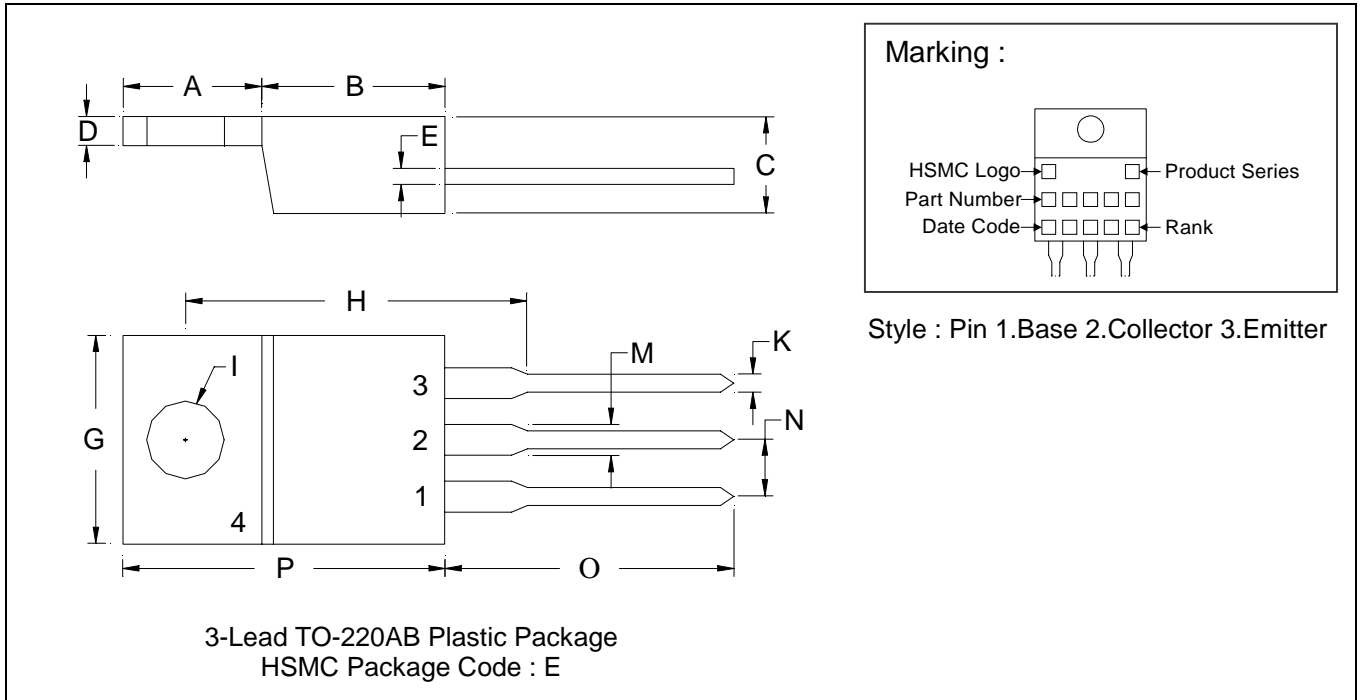


Characteristics Curve





TO-220AB Dimension



*: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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