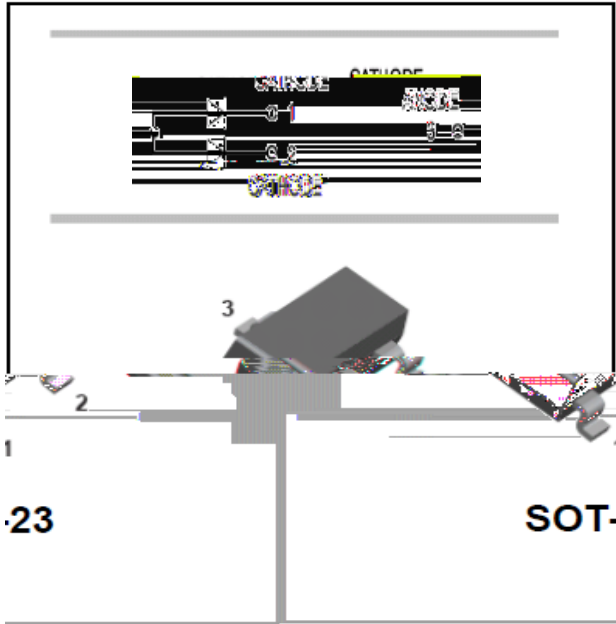


PNP Transistor



Features

Epoxy meets UL-94 V-0 flammability rating
 Halogen free available upon request by adding suffix "HF"
 Moisture Resistant

Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

Package: SOT-323
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
Marking: K3F

Maximum Ratings (T_d)

		Unit	Value
Collector-Base Voltage	V _{CB0}	V	-60
Collector-Emitter Voltage	V _{CE0}	V	-60
Emitter-Base Voltage	V _{EB0}	V	-5
Collector Current	I _C	mA	-600
Collector Power Dissipation	P _C	mW	200
Operation Junction Temperature	T _j		150
Storage Temperature	T _{stg}		-55 to +150

**Electrical Characteristics** (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=-10\mu A, I_E=0$	-60		
Collector-emitter breakdown voltage	V_{CEO^*}	V	$I_C=-10mA, I_B=0$	-60		
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=-10\mu A, I_C=0$	-5		
Collector-emitter cut-off current	I_{CEO}	nA	$V_{CE}=-3$			-50
Collector-base cut-off current	I_{CBO}	nA	$V_{CB}=-50$ i			-10
Emitter-base cut-off current	I_{EBO}	nA	$V_{EB}=-3$ Z			-10
DC current gain	h_{FE}		$V_{CE}=-10$ i mA	100		
	h_{FE}		$V_{CE}=-10$ i 50mA	100		300
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=-500mA, I_B=-50mA$			-1.6
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C=-500mA, I_B=-50mA$			-2.6
Transition frequency	f_T	MHz	$V_{CE}=-20$ i 0mA, f=100MHz	200		
Delay time	t_d	ns	$V_{CC}=-3$ $I_C=-150mA, I_{B1}=-15mA$			10
Rise time	t_r	ns				
Storage time	t_s	ns	$V_{CC}=-6$ i 150mA, $I_{B1}=I_{B2}=-15mA$			225
Fall time	t_f	ns				

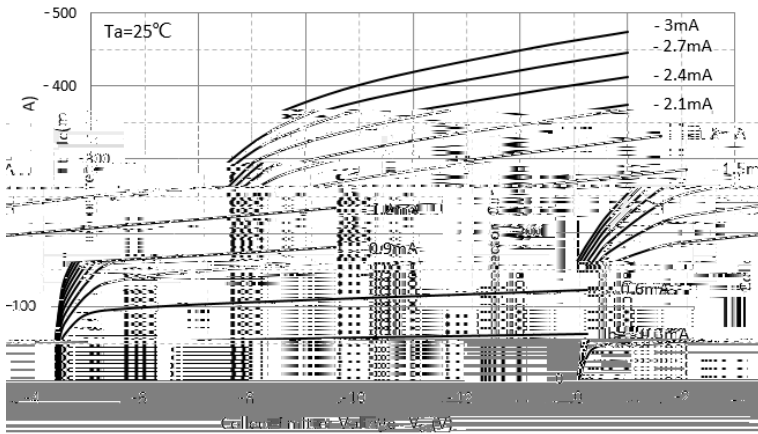
Ordering Information (Example)

Preferred P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
MMST2907A	F2	Approximate 0.005	3000	30000	120000	7" reel

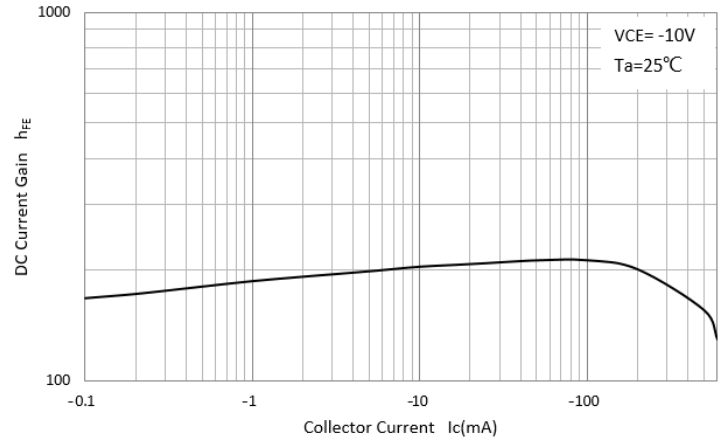


Characteristics (Typical)

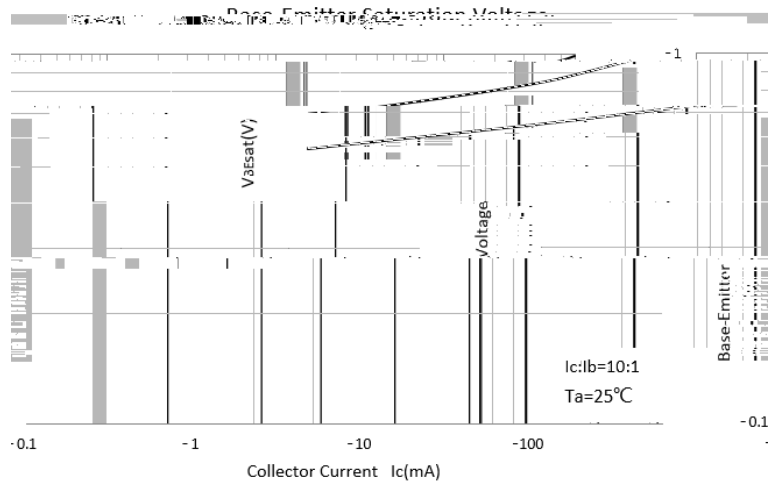
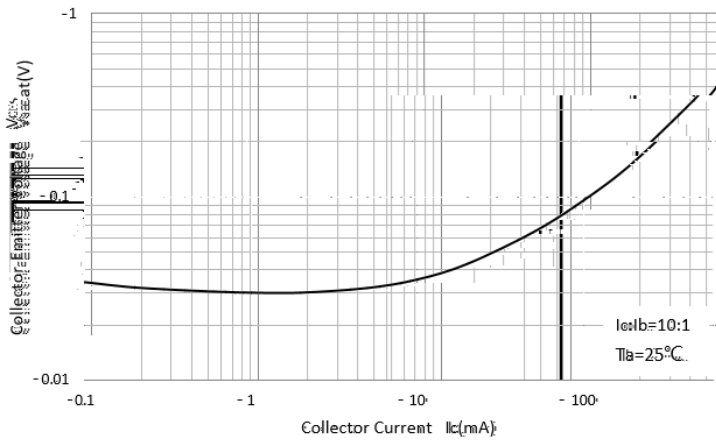
Static Characteristic



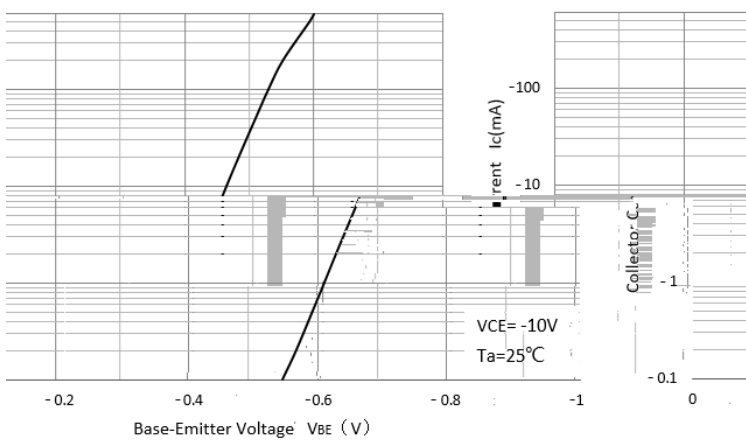
DC Current Gain



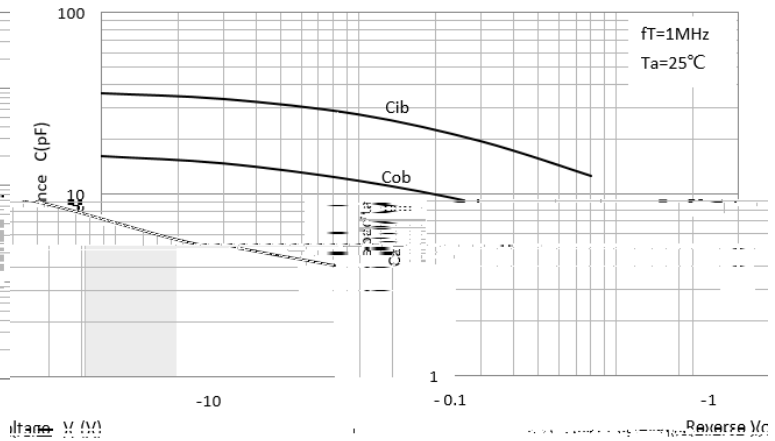
Collector-Emitter Saturation Voltage



Base-Emitter On Voltage



Cob/Cib-Vcb/Veb



MMST2907A

