

Features

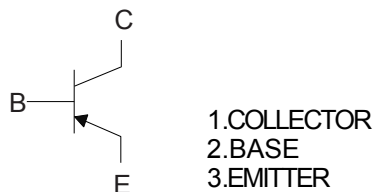
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient

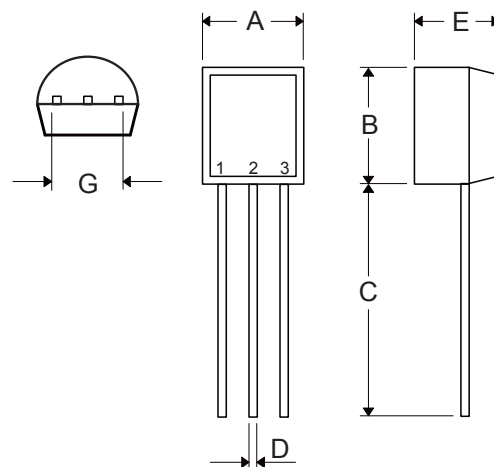
Parameter		Symbol	Rating	Unit
Collector-Base Voltage	BC327	V_{CBO}	-50	V
	BC328		-30	
Collector-Emitter Voltage	BC327	V_{CEO}	-45	V
	BC328		-25	
Emitter-Base Voltage		V_{EBO}	-5	V
Continuous Collector Current		I_C	-0.8	A
Power Dissipation		P_D	0.625	W

Internal Structure



PNP Plastic-Encapsulate Transistors

TO-92



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.169	0.185	4.30	4.70	
C	0.500	-----	12.70	-----	
D	0.015	0.022	0.38	0.55	
E	0.130	0.146	3.30	3.70	
G	0.095	0.105	2.42	2.67	Straight Lead
	0.173	0.220	4.40	5.60	Bent

Electrical Characteristics @ $T_A=25^\circ\text{C}$ Unless Otherwise Specified

Parameter		Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	BC327	$V_{(BR)CBO}$	-50			V	$I_C=-100\mu\text{A}, I_E=0$
	BC328		-30			V	
Collector-Emitter Breakdown Voltage	BC327	$V_{(BR)CEO}$	-45			V	$I_C=-10\text{mA}, I_B=0$
	BC328		-25				
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	-5			V	$I_E=-10\mu\text{A}, I_C=0$
Collector Cutoff Current	BC327	I_{CBO}			-0.1	μA	$V_{CB}=-45\text{V}, I_E=0$
	BC328				-0.1	μA	$V_{CB}=-25\text{V}, I_E=0$
Collector Cutoff Current	BC327	I_{CEO}			-0.2	μA	$V_{CE}=-40\text{V}, I_B=0$
	BC328				-0.2	μA	$V_{CE}=-20\text{V}, I_B=0$
Emitter Cutoff Current		I_{EBO}			-0.1	μA	$V_{EB}=-4\text{V}, I_C=0$
DC Current Gain		$h_{FE(1)}$	100		630		$V_{CE}=-1\text{V}, I_C=-100\text{mA}$
		$h_{FE(2)}$	40				$V_{CE}=-1\text{V}, I_C=-300\text{mA}$
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$			-0.7	V	$I_C=-500\text{A}, I_B=-50\text{mA}$
Base-Emitter Saturation Voltage		$V_{BE(sat)}$			-1.2	V	$I_C=-500\text{A}, I_B=-50\text{mA}$
Base-Emitter Voltage		V_{BE}			-1.2	V	$V_{CE}=-1\text{V}, I_C=-300\text{mA}$
Transition Frequency		f_T	260			MHz	$V_{CE}=-5\text{V}, I_C=-10\text{mA}, f=100\text{MHz}$

Classification of $h_{FE(1)}$

Rank	16	25	40
Range	100-250	160-400	250-630

Curve Characteristics

Fig. 1 - Static Characteristics

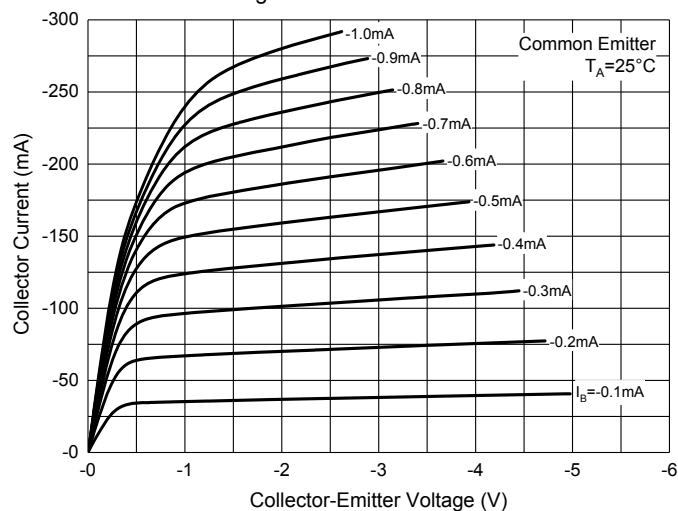


Fig. 2 - DC Current Gain Characteristics

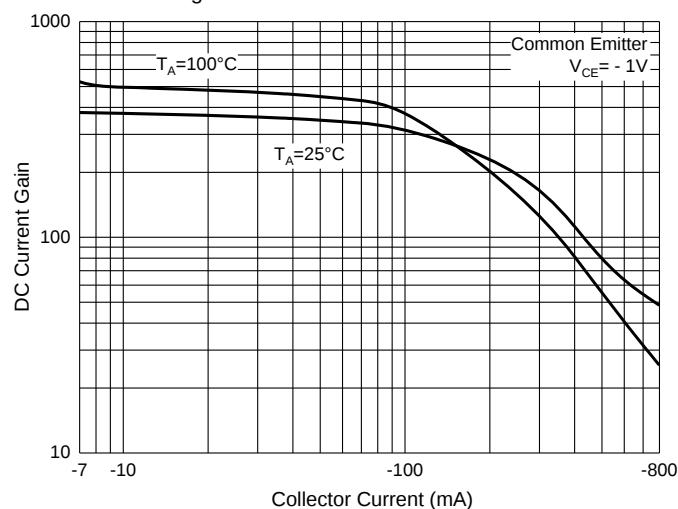


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

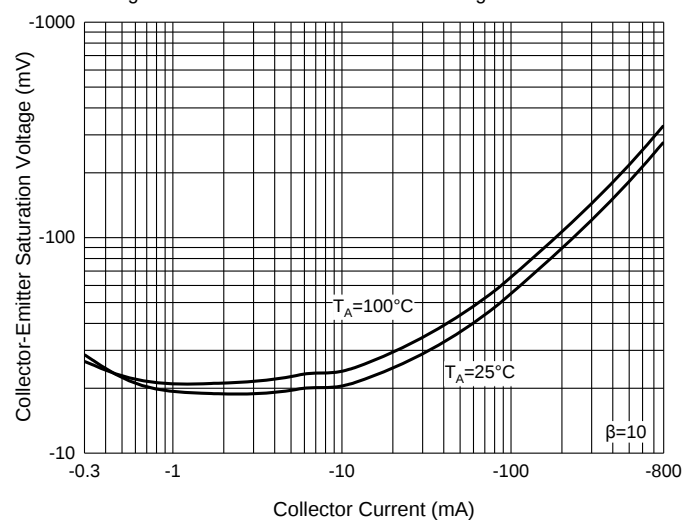


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

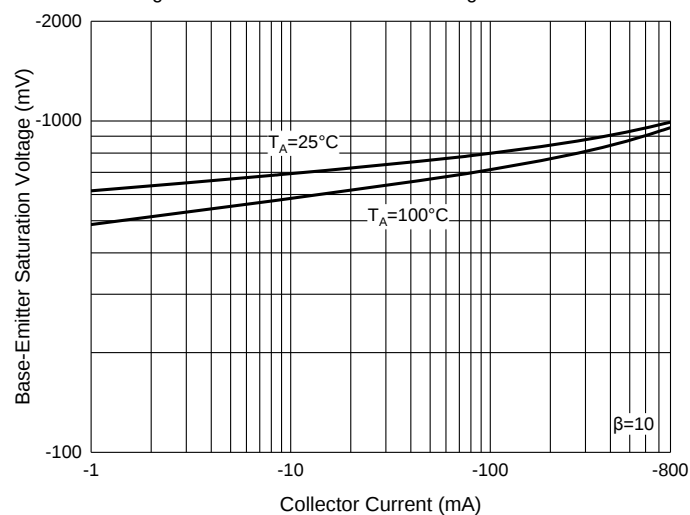


Fig. 5 - Base-Emitter Voltage Characteristics

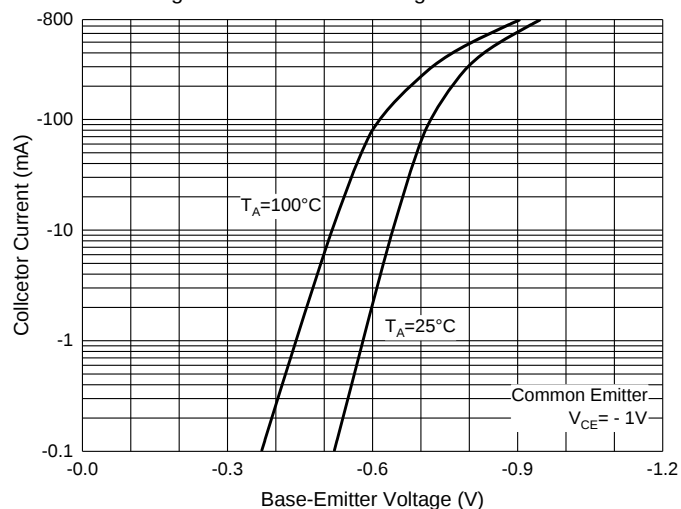
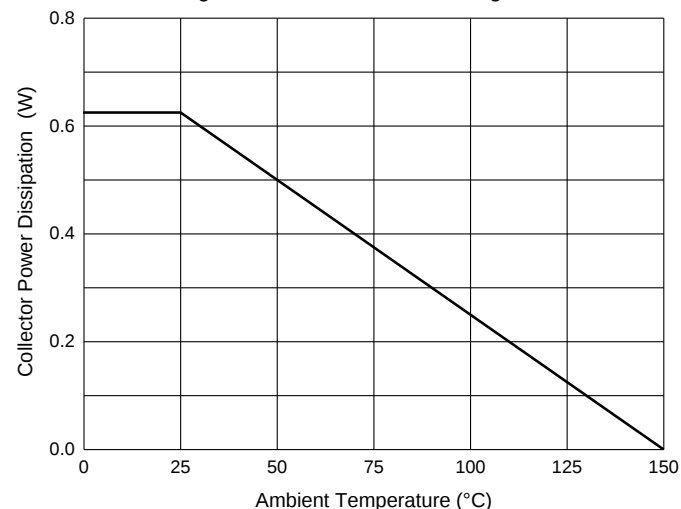


Fig. 6 - Collector Power Derating Curve



Ordering Information

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 1k/Bag, 100K/Ctn;

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp** . does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp** . and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp.** products are sold subject to the general terms and conditions of commercial sale, as published at <https://www.mccsemi.com/Home/TermsAndConditions>.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.