



Micro Commercial Components



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2SC2235-Y

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

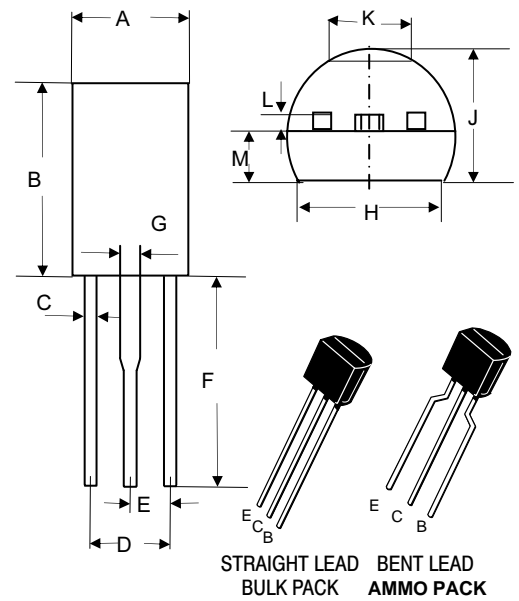
Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	120	V
V_{CBO}	Collector-Base Voltage	120	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current, Continuous	0.8	A
P_D	Total Device Dissipation	0.9	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10\text{mA}$, $I_B=0$)	120	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=1\text{mA}$, $I_E=0$)	120	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=1\text{mA}$, $I_C=0$)	5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=120\text{Vdc}$, $I_E=0$)	---	100	nAdc
I_{EBO}	Base Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_C=0$)	---	100	nAdc
H_{FE}	DC Current Gain ($V_{CE}=5\text{V}$, $I_C=100\text{mA}$)	120	240	
$V_{CE(sat)}$	Collector-emitter Saturation Voltage ($I_C=500\text{mA}$, $I_B=50\text{mA}$)	---	1.0	V
V_{BE}	Base-emitter voltage ($I_C=500\text{mA}$, $V_{CE}=5\text{V}$)	---	1.0	V
f_T	Transition frequency ($I_C=100\text{mA}$, $V_{CE}=5\text{V}$)	120(TYP)		MHz
C_{ob}	Collector output capacitance ($I_E=0$, $V_{CB}=10\text{V}$, $f=1\text{MHz}$)		30	pF

NPN Plastic-Encapsulate Transistors

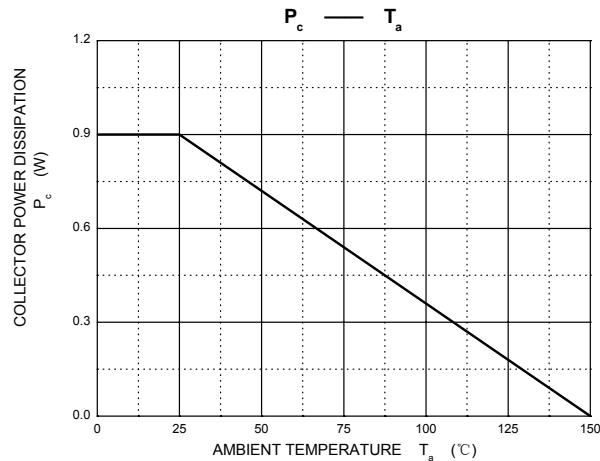
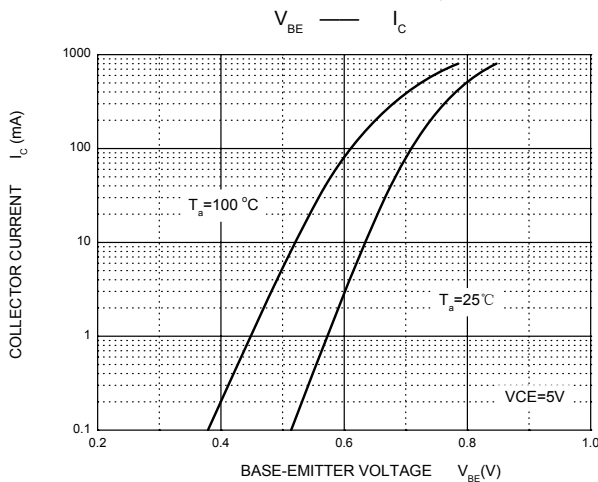
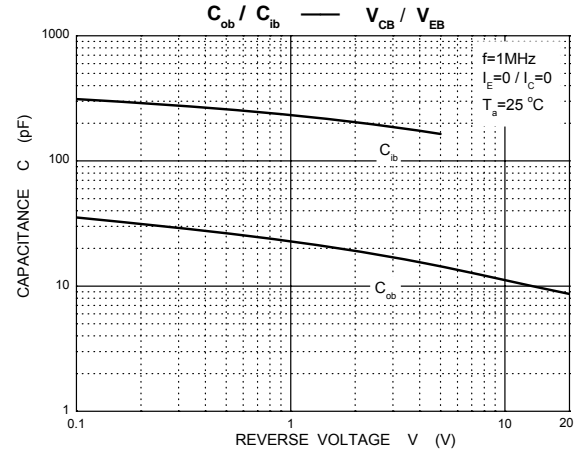
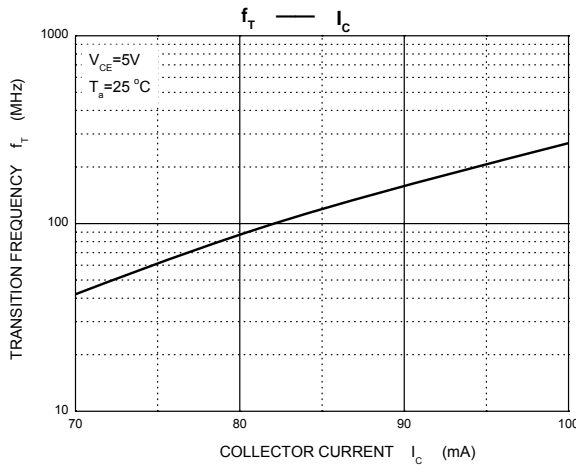
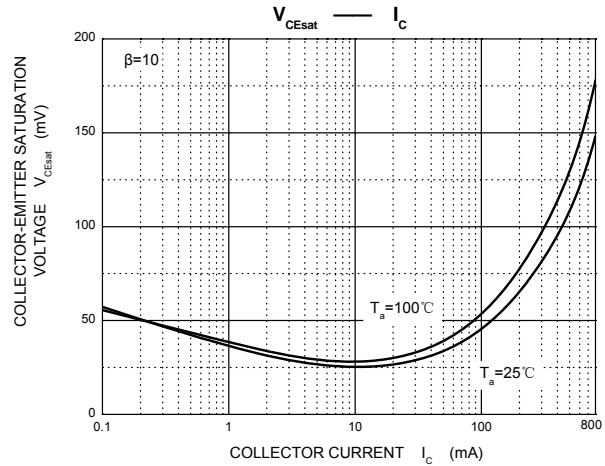
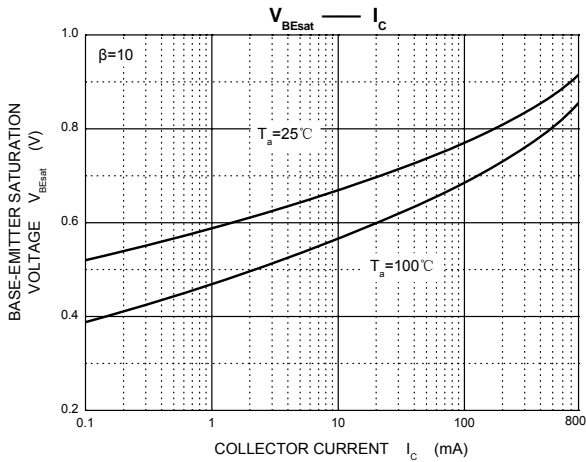
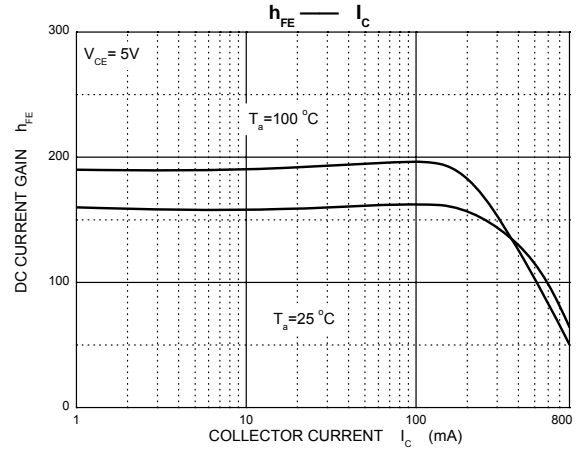
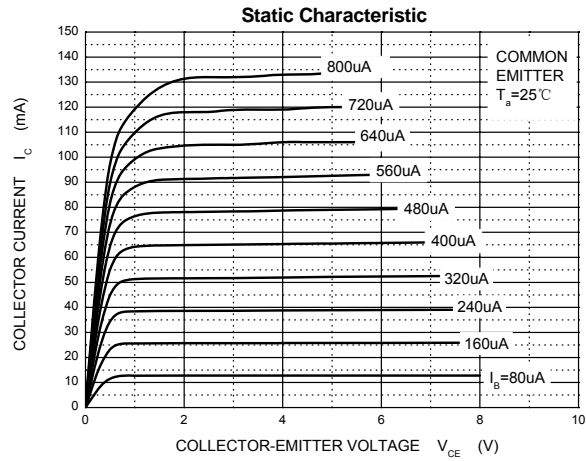
TO-92MOD



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.228	.244	5.80	6.20	
B	.331	.346	8.40	8.80	
C	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
E	.059		1.50		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
H	.157	---	4.00	---	
J	.185	.201	4.70	5.10	
K	---	.063	---	1.60	
L	.016	.020	0.40	0.50	
M	.068	.080	1.73	2.03	

* For ammo packing detailed specification, click here to visit our website of product packaging for details.

Typical Characteristics





Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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