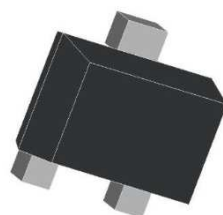
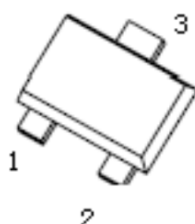


Small Signal Product
PNP Bipolar Transistor
FEATURES

- Epitaxial planar die construction
- Surface Mount Device Type
- Moisture sensitivity level 1
- For high voltage switching and amplifier application
- Pb free and RoHS compliant
- Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code
- Excellent h_{FE} linearity
- Complements the 2SC5658


SOT-723

1. BASE
2. EMITTER
3. COLLECTOR


MECHANICAL DATA

- Case: SOT-723 small outline plastic package
- Terminal: Matte tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10s
- Weight: 1.27mg +/- 20%

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current-Continuous	I_C	-150	mA
Collector Dissipation	P_C	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to + 150	$^\circ\text{C}$

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST CONDITION	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-60			$I_C=-50\mu\text{A}$, $I_E=0$	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50			$I_C=-1\text{mA}$, $I_B=0$	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-6			$I_E=-50\mu\text{A}$, $I_C=0$	V
Collector Cut-Off Current	I_{CBO}			-0.1	$V_{CB}=-60\text{V}$, $I_E=0$	μA
Emitter Cut-Off Current	I_{EBO}			-0.1	$V_{EB}=-6\text{V}$, $I_C=0$	μA
DC Current Transfer Ratio	h_{FE}	120		560	$V_{CB}=-6\text{V}$, $I_C=1\text{mA}$	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	$I_C=-50\text{mA}$, $I_B=-5\text{mA}$	V
Transition Frequency	f_T		140		$V_{CE}=-12\text{V}$, $I_C=2\text{mA}$, $f=30\text{MHz}$	MHz
Output Capacitance	C_{ob}			5	$V_{CB}=-12\text{V}$, $I_E=0$, $f=1\text{MHz}$	pF

Remark:

 Classification of h_{FE}

Rank	Q	R	S
Range	120~270	180~390	270~560

Small Signal Product

ORDERING INFORMATION						
PART NO.	MANUFACTURE CODE (Note)	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	MARKING
2SA2029-Q		RM	G	SOT-723	8K / 7" Reel	FQ
2SA2029-R		RM	G	SOT-723	8K / 7" Reel	FR
2SA2029-S		RM	G	SOT-723	8K / 7" Reel	FS

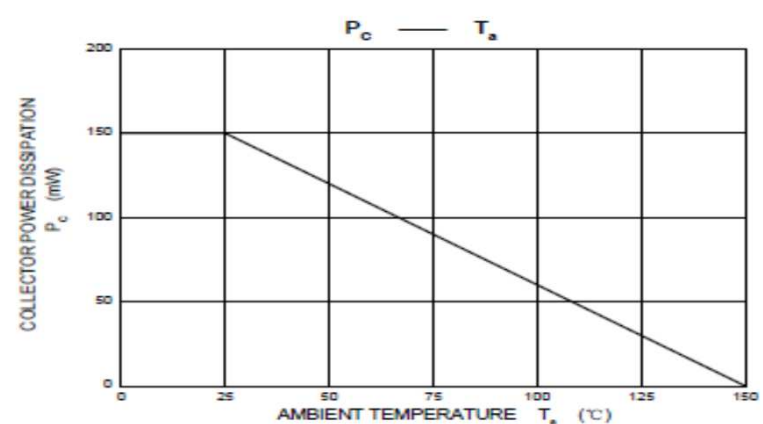
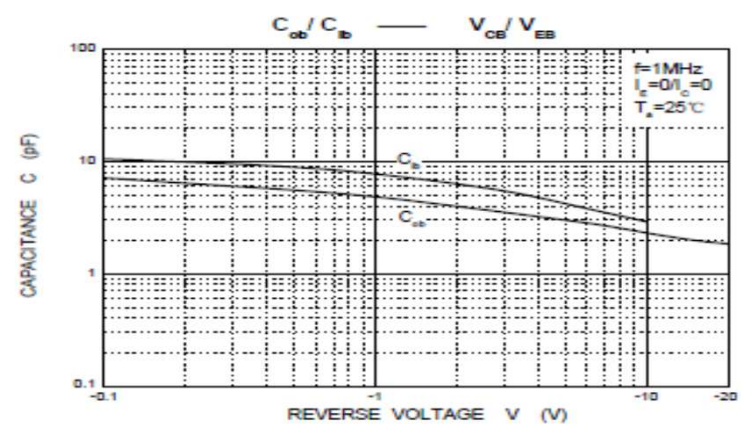
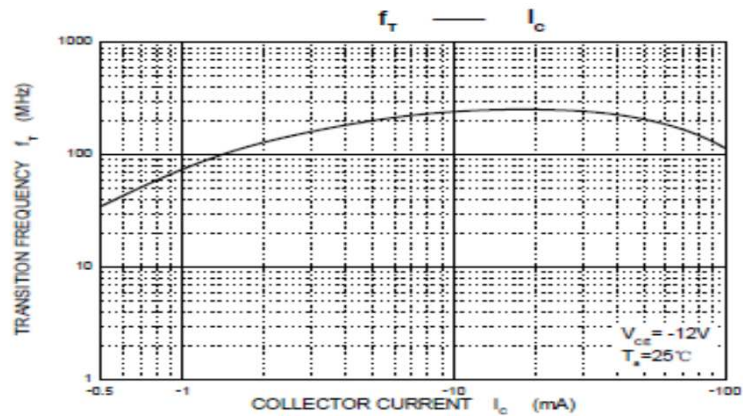
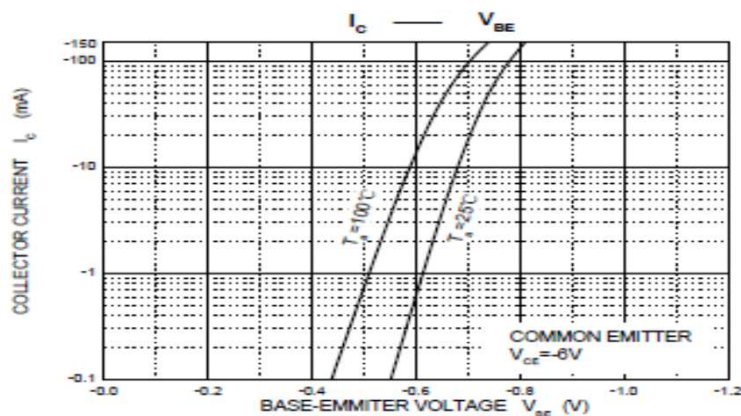
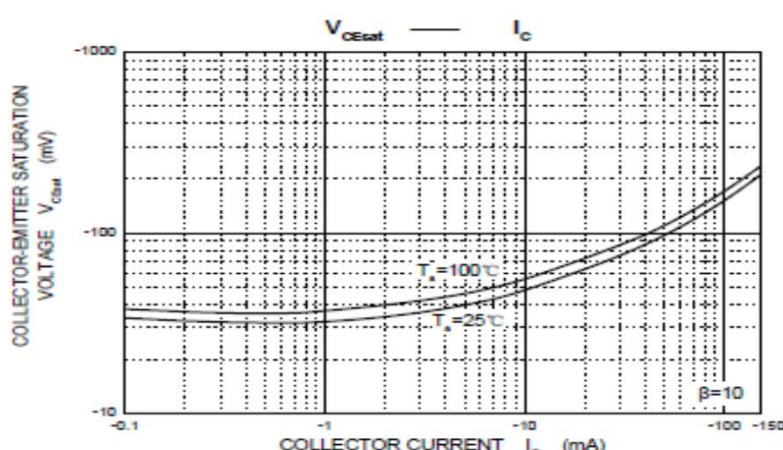
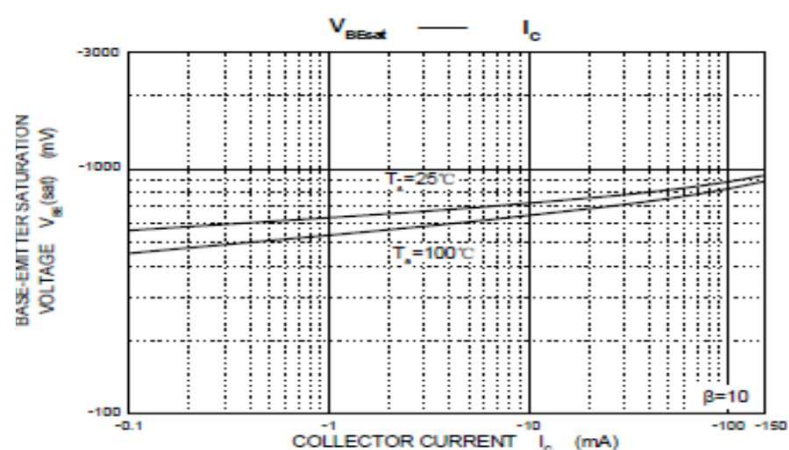
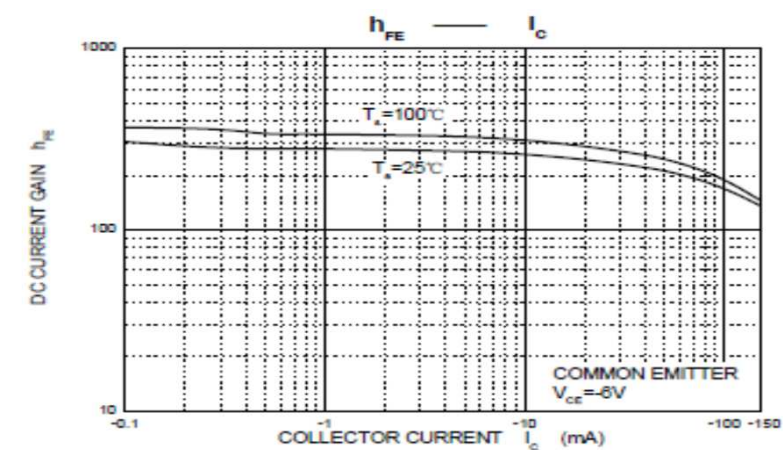
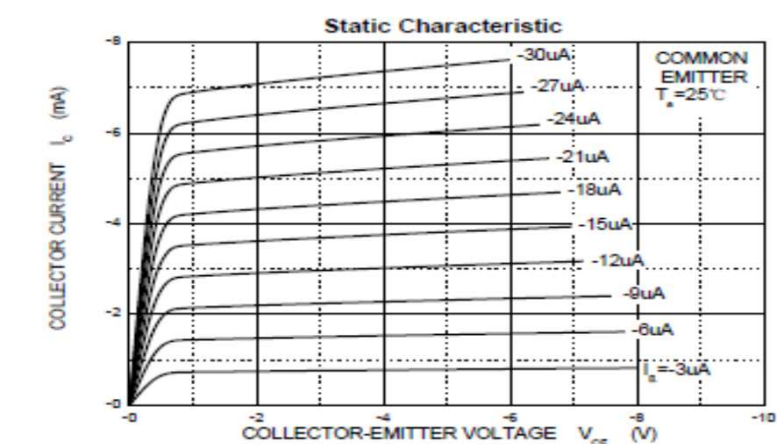
Note: Manufacture special control, if empty means no special control requirement.

EXAMPLE					
PREFERRED P/N	PART NO.	MANUFACTURE CODE	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
2SA2029-Q RMG	2SA2029-Q		RM	G	Green compound
2SA2029-Q-M0 RMG	2SA2029-Q	M0	RM	G	Green compound

Small Signal Product

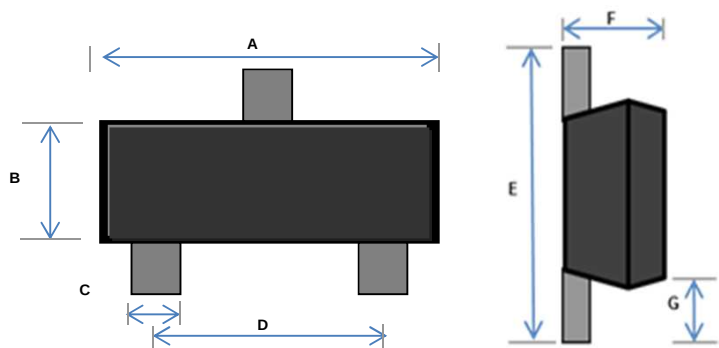
RATINGS AND CHARACTERISTICS CURVES (2SA2029-Q/R/S)

(TA=25°C unless otherwise noted)



Small Signal Product

DIMENSIONS
 SOT-723



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.15	1.25	0.05	0.05
B	0.75	0.85	0.03	0.03
C	0.15	0.27	0.01	0.01
D	0.8 TYP.		0.031 TYP.	
E	1.15	1.25	0.05	0.05
F	0.43	0.55	0.02	0.02
G	0.15	0.25	0.01	0.01
H	0.25	0.37	0.01	0.01