

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low frequency power amplifier application
- Power switching application
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

#### Maximum Ratings @ 250C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	-50	V
V <sub>CBO</sub>	Collector-Base Voltage	-50	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Collector Current-Continuous	150	mA
Pc	Collector Dissipation	100	mW
TJ	Operating Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

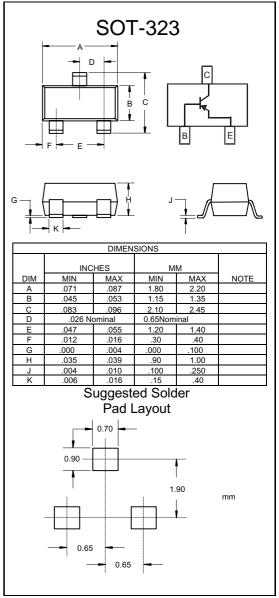
Symbol	Parameter	Min	Тур	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mAdc, I <sub>B</sub> =0)	-50			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>c</sub> =-0.1mAdc, I <sub>E</sub> =0)	-50			Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =-0.1mAdc, I <sub>C</sub> =0)	-5			Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-50Vdc,I <sub>E</sub> =0)			- 0.1	uA
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =-5Vdc,I <sub>C</sub> =0)			-0.1	uA
h <sub>FE</sub>	DC Current Gain (V <sub>CE</sub> =-6Vdc,I <sub>C</sub> =-2mA)	70		400	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage ( $I_c$ =-100mAdc, $I_B$ =-10mAdc)			- 0.3	Vdc
C <sub>ob</sub>	Output Capacitance (V <sub>CB</sub> =-10.0Vdc, I <sub>E</sub> =0, f=1.0MHz)			7	pF
f⊤	Transition frequency (V <sub>CE</sub> =-10Vdc, I <sub>C</sub> =-1mAdc)	80			MHz

#### h<sub>FE</sub> CLASSIFICATION

Rank	0	Y	GR
Marking	SO	SY	SG
h <sub>FE</sub>	70~120	120~240	200~400

# KTA2014-O KTA2014-Y KTA2014-GR

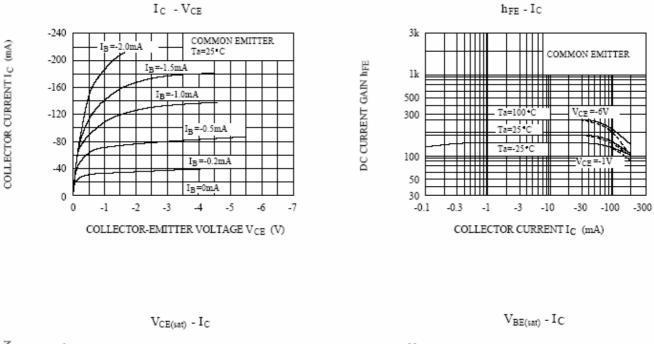
### PNP Plastic-Encapsulate Transistors

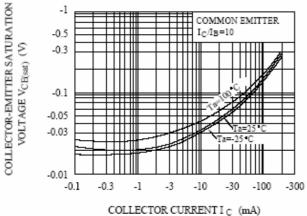


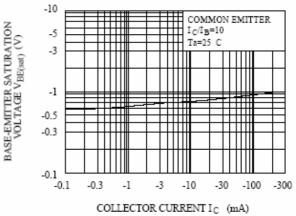
www.mccsemi.com

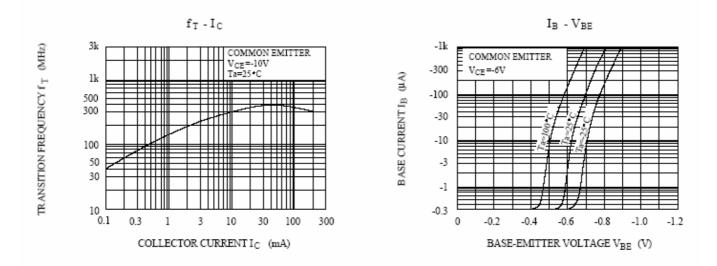
## KTA2014 Typical Characteristics











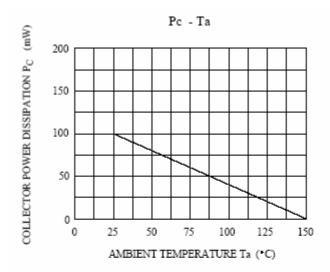
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#### **Revision:**C

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### KTA2014 Typical Characteristics



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### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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

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