

#### **Features**

- · Complement to KTC3199
- High h<sub>FE</sub> Linearity
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- · 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

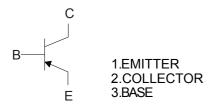
Storage Temperature Range: -55°C to +150°C

• Thermal Resistance: 312°C/W Junction to Ambient

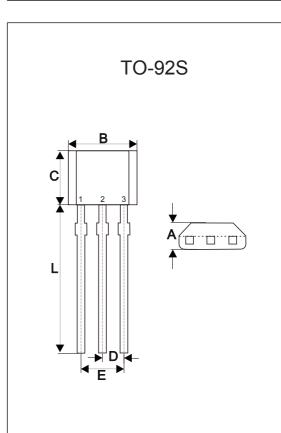
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-50	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-50	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	I <sub>C</sub>	-150	mA
Emitter Current	I <sub>E</sub>	-150	mA
Power Dissipation	P <sub>D</sub>	400	mW

Marking: A1267

#### **Internal Structure**



# PNP General Purpose Application



DIMENSIONS					
DIM INCHES		M	М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.056	0.064	1.42	1.62	
В	0.154	0.161	3.90	4.10	
С	0.120	0.128	3.05	3.25	
D	0.050		1.27		Straight Lead
	0.086	0.110	2.20	2.80	Bent Lead
Е	0.096	0.104	2.44	2.64	Straight Lead
_	0.173	0.220	4.40	5.60	Bent Lead
L	0.594	0.610	15.10	15.50	



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

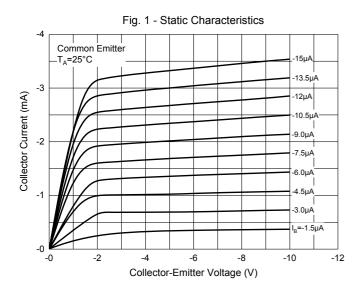
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-50			V	I <sub>C</sub> =-0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50			V	I <sub>C</sub> =-1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I <sub>E</sub> =-0.1mA, I <sub>C</sub> =0
Collector-Base Cutoff Current	I <sub>CBO</sub>			-0.1	μΑ	V <sub>CB</sub> =-50V, I <sub>E</sub> =0
Emitter-Base Cutoff Current	I <sub>EBO</sub>			-0.1	μΑ	V <sub>EB</sub> =-5V, I <sub>C</sub> =0
DC Current Gain	h <sub>FE</sub>	70		400		V <sub>CE</sub> =-6V, I <sub>C</sub> =-2mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.3	V	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA
Transition Frequency	f <sub>T</sub>	80			MHz	V <sub>CE</sub> =-10V, I <sub>C</sub> =-1mA
Collector-Base Capacitance	C <sub>cb</sub>		4	7	pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0,f=1MHz
Noise Figure	$N_{F}$		1	10	dB	$V_{CE}$ =-6V, $I_{C}$ =-0.1mA, $f$ =1KHz, $Rg$ =10K $\Omega$

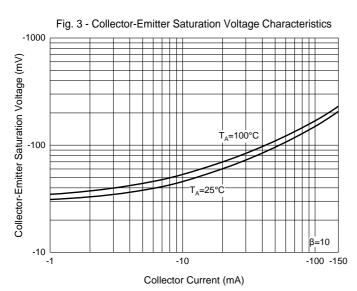
## Classification of $h_{\text{FE}}$

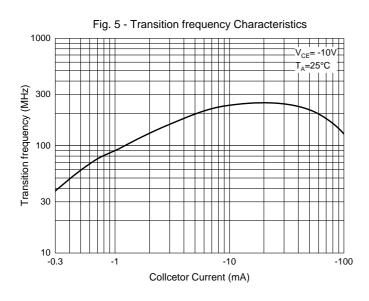
Rank	0	Y	GR
Range	70-140	120-240	200-400

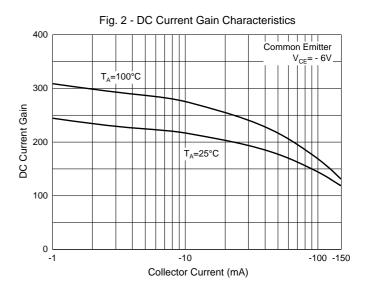


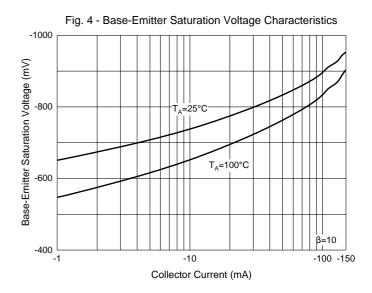
#### **Curve Characteristics**

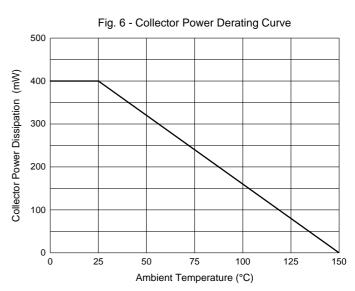














### **Ordering Information**

Device	Packing
Part Number-AP	Ammo Packing: 30Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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

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