

**Micro Commercial Components** 



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# **Features**

- Halogen free available upon request by adding suffix "-HF" Capable of 0.9Watts of Power Dissipation.
- Collector-current 1.0A
- Collector-base Voltage 160V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: C2383
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Lead Free Finish/RoHS Compliant ("P" Suffix designates

RoHS Compliant. See ordering information)

Symbol	Parameter	Min	Max	Units
OFF CHARAC	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=10mAdc, l <sub>B</sub> =0)	160		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (├=100µAdc, ├=0)	160		Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage ([=10µAdc, [=0)	6.0		Vdc
Сво	Collector Cutoff Current (V <sub>CB</sub> =150Vdc, I <sub>E</sub> =0)		1.0	μAdc
CER	Collector Cutoff Current (V <sub>CB</sub> =150Vdc, R <sub>EB</sub> =10m OHM)		10	μAdc
lево	Emitter Cutoff Current (V <sub>EB</sub> =6.0Vdc, I <sub>C</sub> =0)		1.0	μAdc

h <sub>FE(1)</sub>	DC Current Gain			
	(b=200mAdc, V <sub>CE</sub> =5.0Vdc)	60	320	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
	(├=500mAdc, ├=50mAdc)		1.0	Vdc
$V_{BE}$	Base-Emitter Voltage			
	(├=5.0mAdc, V <sub>CE</sub> =5.0Vdc)		0.75	Vdc

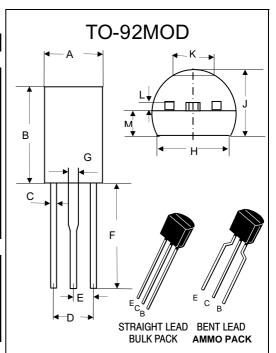
### **SMALL-SIGNAL CHARACTERISTICS**

f⊤	Transistor Frequency		
	(l <sub>c</sub> =200mAdc, V <sub>CE</sub> =5.0Vdc)	20	MHz

## CLASSIFICATION OF HEED

Rank	R	0	Υ	
Range	60-120	100-200	160-320	

# **NPN Silicon** Plastic-Encapsulate **Transistor**



DIMENSIONS					
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.228	.244	5.80	6.20	
В	.331	.346	8.40	8.80	
С	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
Е	.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	
Н	.157		4.00	-	
J	.185	.201	4.70	5.10	
K		.063		1.60	
Ĺ	.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.



#### **Micro Commercial Components**

# **Ordering Information:**

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 50Kpcs/Carton

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

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