

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

2SC2383-R 2SC2383-O 2SC2383-Y

# **Features**

- 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
- Case Material: Molded Plastic. UL Flammability

(L=200mAdc, V<sub>CE</sub>=5.0Vdc)

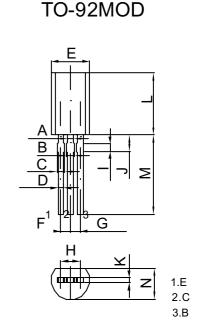
Classificatio Rating 94-0 and MSL Rating 1 Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

<b>Electrica</b>	l Characteristics @ 25°C Unless	Otherwi	ise Spec	cified
Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=10mAdc, l <sub>B</sub> =0)	160		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (b=100uAdc, b=0)	160		Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage (½=10uAdc, ½=0)	6.0		Vdc
Сво	Collector Cutoff Current (V <sub>CB</sub> =150Vdc, I <sub>E</sub> =0)		1.0	uAdo
CER	Collector Cutoff Current (V <sub>CB</sub> =150Vdc, R <sub>EB</sub> =10m OHM)		10	uAdo
Ево	Emitter Cutoff Current (V <sub>EB</sub> =6.0Vdc, I <sub>C</sub> =0)		1.0	uAdc
ON CHARAC	TERISTICS			
h <sub>FE(1)</sub>	DC Current Gain (b=200mAdc, V <sub>CE</sub> =5.0Vdc)	60	320	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (b=500mAdc, b=50mAdc)		1.0	Vdc
$V_{BE}$	Base-Emitter Voltage (L=5.0mAdc, V <sub>CE</sub> =5.0Vdc)		0.75	Vdc
SMALL-SIGI	NAL CHARACTERISTICS			
f⊤	Transistor Frequency			

### **CLASSIFICATION OF H**

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		.030		.750		
В		.039		1.00		
С		.031		.80		
D		.024		0.60		
Е		.201		5.10		
F	.050		1.	27		
G	.050		1.	27		
Н	.100		2.	54		
	.039		1.	00		
J		.087		2.20		
K		.024		.60		
L		.323		8.20		
M		.413		10.50		
N		.161		4.10		



# **Ordering Information**

Device	Packing
(Part Number)-BP	Bulk;500pcs/Bag

## \*\*\*IMPORTANT NOTICE\*\*\*

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*APPLICATIONS DISCLAIMER\*\*\*

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.