

**Micro Commercial Components** 

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

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

<u>Electrical Characteristics @ 25°C Unless Otherwise Specified</u>				
Symbol	Parameter	Min	Max	Units
<b>OFF CHARA</b>	CTERISTICS			
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (t <sub>c</sub> =10mAdc, l <sub>B</sub> =0)	160		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (t <sub>c</sub> =100uAdc, l <sub>e</sub> =0)	160		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Voltage (┟=10uAdc, ┟=0)	6.0		Vdc
сво	Collector Cutoff Current (V <sub>CB</sub> =150Vdc, I <sub>E</sub> =0)		1.0	uAdc
LER	Collector Cutoff Current ( $V_{CB}$ =150Vdc, $R_{EB}$ =10m OHM)		10	uAdc
I <sub>EBO</sub>	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	60	220	

1	SMALL-SIGN	IAI CHARACTERISTICS			
		(l <sub>c</sub> =5.0mAdc, V <sub>CE</sub> =5.0Vdc)		0.75	Vdc
	V <sub>BE</sub>	Base-Emitter Voltage			
		(と=500mAdc,		1.0	Vdc
	V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage			
		( <b>と</b> =200mAdc, V <sub>CE</sub> =5.0Vdc)	60	320	
	N <sub>FE(1)</sub>	DC Current Gain			

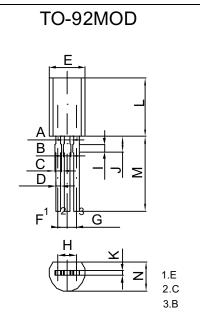
SMALL-SIGNAL CHANACILIIS IIGS				
f⊤	Transistor Frequency (t <sub>c</sub> =200mAdc, V <sub>cc</sub> =5.0Vdc)	20		MHz

#### CLASSIFICATION OF HEELD

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

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

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



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
А		.030		.750	
В		.039		1.00	
С		.031		.80	
D		.024		0.60	
Е		.201		5.10	
F	.05	0	1	.27	
G	.05	0	1	.27	
Н	.10	0	2	.54	
Ι	.03	9	1	.00	
J		.087		2.20	
к		.024		.60	
L		.323		8.20	
М		.413		10.50	
Ν		.161		4.10	

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## **Ordering Information**

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

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