

Micro Commercial Components

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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
OFF CHARA	CTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (t _c =10mAdc, l _B =0)	160		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (t _c =100uAdc, l _e =0)	160		Vdc
V _{(BR)EBO}	Emitter-Base Voltage (┟=10uAdc, ┟=0)	6.0		Vdc
сво	Collector Cutoff Current (V _{CB} =150Vdc, I _E =0)		1.0	uAdc
LER	Collector Cutoff Current (V_{CB} =150Vdc, R_{EB} =10m OHM)		10	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =6.0Vdc, I _C =0)		1.0	uAdc
ON CHARAC	TERISTICS			
h _{FE(1)}	DC Current Gain	60	220	

1	SMALL-SIGN	IAI CHARACTERISTICS			
		(l _c =5.0mAdc, V _{CE} =5.0Vdc)		0.75	Vdc
	V _{BE}	Base-Emitter Voltage			
		(と=500mAdc,		1.0	Vdc
	V _{CE(sat)}	Collector-Emitter Saturation Voltage			
		(と =200mAdc, V _{CE} =5.0Vdc)	60	320	
	N _{FE(1)}	DC Current Gain			

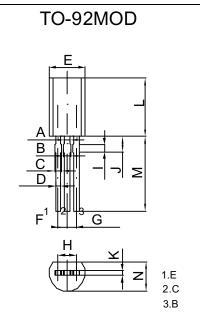
SMALL-SIGNAL CHANACILIIS IIGS				
f⊤	Transistor Frequency (t _c =200mAdc, V _{cc} =5.0Vdc)	20		MHz

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	

www.mccsemi.com



Ordering Information

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

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