

M.C.C.

Micro Commercial Components



Micro Commercial Components
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2SC2383-R
2SC2383-O
2SC2383-Y

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)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10\text{mA}$, $I_B=0$)	160		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu\text{A}$, $I_E=0$)	160		Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage ($I_E=10\text{mA}$, $I_C=0$)	6.0		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=150\text{Vdc}$, $I_E=0$)		1.0	μA
I_{CER}	Collector Cutoff Current ($V_{CB}=150\text{Vdc}$, $R_{EB}=10\text{m}\Omega$)		10	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=6.0\text{Vdc}$, $I_C=0$)		1.0	μA

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C=200\text{mA}$, $V_{CE}=5.0\text{Vdc}$)	60	320	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mA}$, $I_B=50\text{mA}$)		1.0	Vdc
V_{BE}	Base-Emitter Voltage ($I_C=5.0\text{mA}$, $V_{CE}=5.0\text{Vdc}$)		0.75	Vdc

SMALL-SIGNAL CHARACTERISTICS

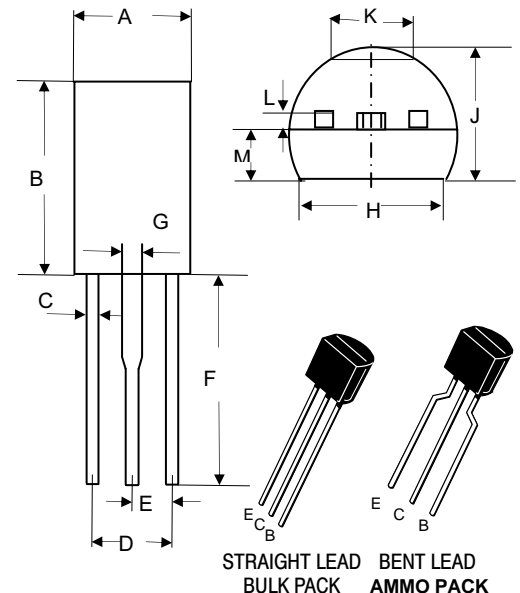
f_T	Transistor Frequency ($I_C=200\text{mA}$, $V_{CE}=5.0\text{Vdc}$)	20		MHz
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CLASSIFICATION OF $h_{FE(1)}$

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

NPN Silicon
Plastic-Encapsulate
Transistor

TO-92MOD



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.228	.244	5.80	6.20	
B	.331	.346	8.40	8.80	
C	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
E	.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	
H	.157	---	4.00	---	
J	.185	.201	4.70	5.10	
K	---	.063	---	1.60	
L	.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.

www.mccsemi.com

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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