

M·C·C·

Micro Commercial Components



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2SC2073

Features

- Halogen free available upon request by adding suffix "-HF"
- Wide safe Operating Area.
- Complementary to 2SA940
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	150	V
V_{CBO}	Collector-Base Voltage	150	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	1.5	A
P_C	Collector power dissipation	1.5	W
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @25°C Unless Otherwise Specified

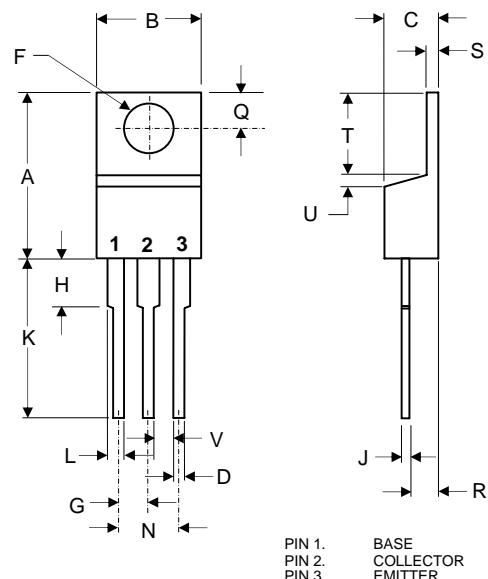
Symbol	Parameter	Min	Typ	Max	Units
OFFCHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1\text{mA}$, $I_B=0$)	150	---	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=120\text{Vdc}$, $I_E=0$)	---	---	10	uAdc
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_E=0$)	---	---	10	uAdc

ONCHARACTERISTICS

$h_{FE(1)}$	Forward Current Transfer ratio ($I_C=0.5\text{mA}$, $V_{CE}=10\text{Vdc}$)	40	---	140	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=0.5\text{mA}$, $I_E=50\text{mA}$)	---	---	1.5	Vdc
V_{BE}	Base-Emitter Saturation Voltage ($I_C=0.5\text{mA}$, $V_{CE}=10\text{Vdc}$)	0.65	---	0.85	Vdc
f_T	Transition Frequency ($V_{CE}=10\text{Vdc}$, $I_E=0.5\text{mA}$)	---	4.0	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10\text{Vdc}$, $I_E=0$, $f=1.0\text{MHz}$)	---	35	---	pF

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

NPN Silicon Power Transistors

TO-220

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.090	.110	2.29	2.79	
H	---	.250	---	6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	-----	.050	-----	1.27	
V	.045	-----	1.15	-----	

www.mccsemi.com

Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1 Kpcs/ Box

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

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