Micro Commercial Components
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2SB1366F-O
2SB1366F-Y

PNP Silicon Power Transistors

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Low $V_{CE(SAT)}$:$V_{CE(SAT)}$=-1.0V(Max.)(I_C/I_B=-2A/-0.2A)
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
  Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Mounting Torgue: 5 in-lbs Maximum

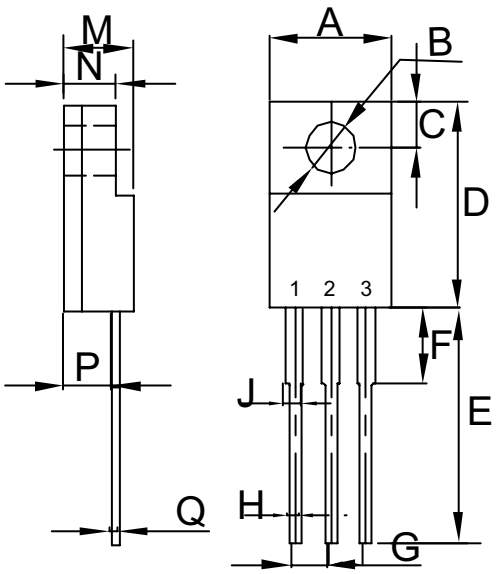
Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{CBO}	Collector-Base Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-7.0	V
I_C	Collector Current	-3.0	A
P_C	Collector power dissipation T_A=25°C	2.0	W
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I_C=-50mAdc, I_B=0)	-60	---	---	Vdc
I_{CBO}	Collector-Base Cutoff Current (V_{CB}=-60Vdc,I_E=0)	---	---	-100	uAdc
I_{EBO}	Emitter-Base Cutoff Current (V_{EB}=-7.0Vdc, I_C=0)	---	---	-100	uAdc
ON CHARACTERISTICS					
$h_{FE(1)}$	Forward Current Transfer ratio (I_C=-0.5Adc, V_{CE}=-5.0Vdc)	60	---	200	---
$h_{FE(2)}$	Forward Current Transfer ratio (I_C=-3.0Adc, V_{CE}=-5.0Vdc)	20	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=-2.0Adc, I_B=-0.2Adc)	---	---	-1.0	Vdc
V_{BE}	Base-Emitter Saturation Voltage (I_C=-0.5Adc, V_{CE}=-5.0Vdc)	---	---	-1.0	Vdc
f_T	Transition Frequency (V_{CE}=-5.0Vdc, I_C=-0.5Adc)	---	9.0	---	MHz
C_{ob}	Collector Output Capacitance (V_{CB}=-10Vdc, I_E=0, f=1.0MHz)	---	150	---	pF
t_f	Fall time (I_C=-2Adc, I_{B1}= -I_{B2}= -0.2Adc,V_{CC}= -30Vdc)	---	0.4	---	us
t_s	Storage time (I_C=-2Adc, I_{B1}= -I_{B2}= -0.2Adc,V_{CC}= -30Vdc)	---	1.7	---	us

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.
2. h_{FE} Range: O: 60~120, Y:100~200

TO-220F



PIN 1. BASE
PIN 2. COLLECTOR
PIN 3. EMITTER

DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	.392	.408	9.96	10.36	
B	.138		3.50		Φ
C	.106		2.70		
D	.583	.598	14.80	15.20	
E	.520		13.20		
F	.142	.158	3.60	4.00	
G	.100		2.54		
H	.020	.030	0.50	0.75	
J	.043	.053	1.10	1.35	
M	.169	.185	4.30	4.70	
N	.110	.126	2.80	3.20	
P	.098	.114	2.50	2.90	
Q	.020	.030	0.50	0.75	

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Ordering Information :

Device	Packing
Part Number-BP	Bulk;5Kpcs/Box

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

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