



Micro Commercial Components
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S2000N

Features

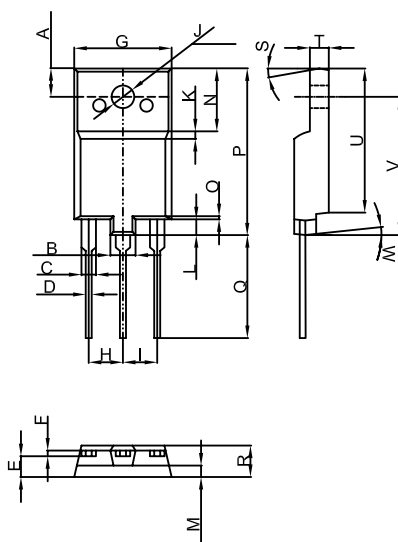
- Horizontal deflection for color TV
- Switching regulator output applications
- With TO-3P(H)IS package

NPN Silicon Power Transistors

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	600	V
V_{CBO}	Collector-Base Voltage	1500	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	5.0	A
P_C	Collector power dissipation	50	W
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

TO-3P(H)IS



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=50\text{mA}$, $I_B=0$)	600	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=500\text{Vdc}$, $V_{BE}=0$)	---	10	μA
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_C=0$)	---	1.0	mA

ON CHARACTERISTICS

h_{FE}	Forward Current Transfer ratio ($I_C=1.0\text{A}$, $V_{CE}=5.0\text{Vdc}$)	8.0	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=4.0\text{A}$, $I_B=0.8\text{A}$)	---	5.0	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=4.0\text{A}$, $I_B=0.8\text{A}$)	---	1.5	Vdc

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.177		4.50		
B	.157		4.00		
C	---	.091	---	2.30	
D	---	.037	---	0.95	
E	.130		3.30		
F	.031	.045	0.80	1.15	
G	.591	.630	15.00	16.00	
H	.215		5.45		
I	.215		5.45		
J	.130	.154	3.30	3.90	Ø
K	.047		1.20		
L	.098		2.50		
M	.079		2.00		
N	.394		10.00		
O	.008		0.20		
P	1.024	1.063	26.00	27.00	
Q	.646	---	16.40	---	
R	.205	.228	5.20	5.80	
S	9°	11°	9°	11°	
T	.106	.130	2.70	3.30	
U	.906		23.00		
V	.846	.886	21.50	22.50	
W	4°	6°	4°	6°	