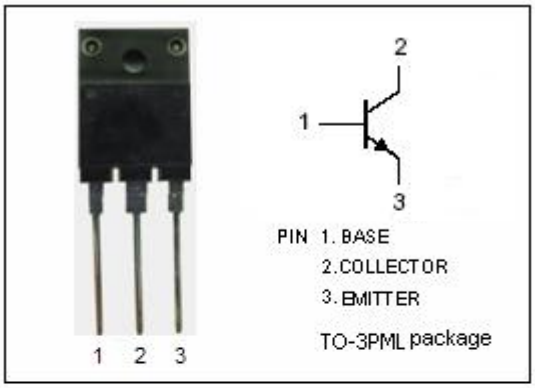
SPTECH Silicon NPN Power Transistor



DESCRIPTION

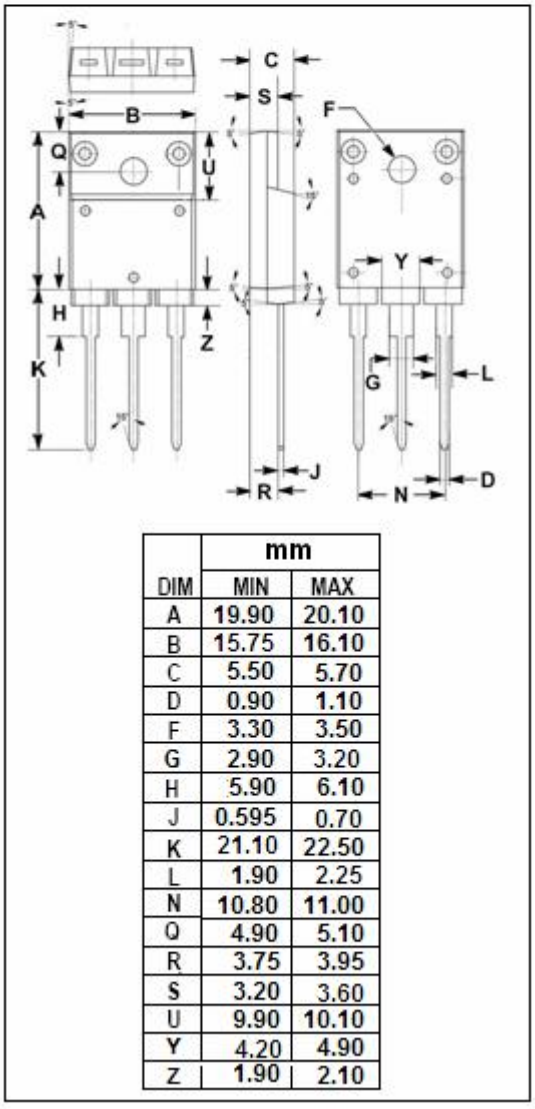
- High Breakdown Voltage-
  : $V_{(BR)CBO}$= 1500V(Min)
- High Switching Speed
- High Reliability

APPLICATIONS

- Ultrahigh-definition CRT display horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	10	A
I_{CP}	Collector Current-Peak	25	A
P_C	Collector Power Dissipation @ T_a=25℃	3.0	W
	Collector Power Dissipation @ T_C=25℃	70	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	19.90	20.10
B	15.75	16.10
C	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
H	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
Q	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10

SPTECH Silicon NPN Power Transistor

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= 10mA; I_B= 0	800			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 8A; I_B= 2A			5.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 8A; I_B= 2A			1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 800V ; I_E= 0			10	μA
I_{CES}	Collector Cutoff Current	V_{CE}= 1500V; R_{BE}= 0			1.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 4V ; I_C= 0			1.0	mA
h_{FE-1}	DC current gain	I_C= 1A ; V_{CE}= 5V	20		30	
h_{FE-2}	DC current gain	I_C= 8A ; V_{CE}= 5V	4		7	
Switching times						
t_{stg}	Storage Time	I_C= 6A , I_{B1}= 1.2A; I_{B2}= -2.4A R_L= 50Ω ; V_{CC}= 200V			3.0	μs
t_f	Fall Time				0.2	μs