

SPTECH Product Specification

SPTECH Silicon PNP Darlington Power Transistor

TIP126

DESCRIPTION

- High DC Current Gain-
: $h_{FE} = 1000(\text{Min}) @ I_C = -3A$
- Collector-Emitter Sustaining Voltage-
: $V_{CEO(\text{SUS})} = -80V(\text{Min})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(\text{sat})} = -2.0V(\text{Max}) @ I_C = -3A$
= $-4.0V(\text{Max}) @ I_C = -5A$
- Complement to Type TIP121

APPLICATIONS

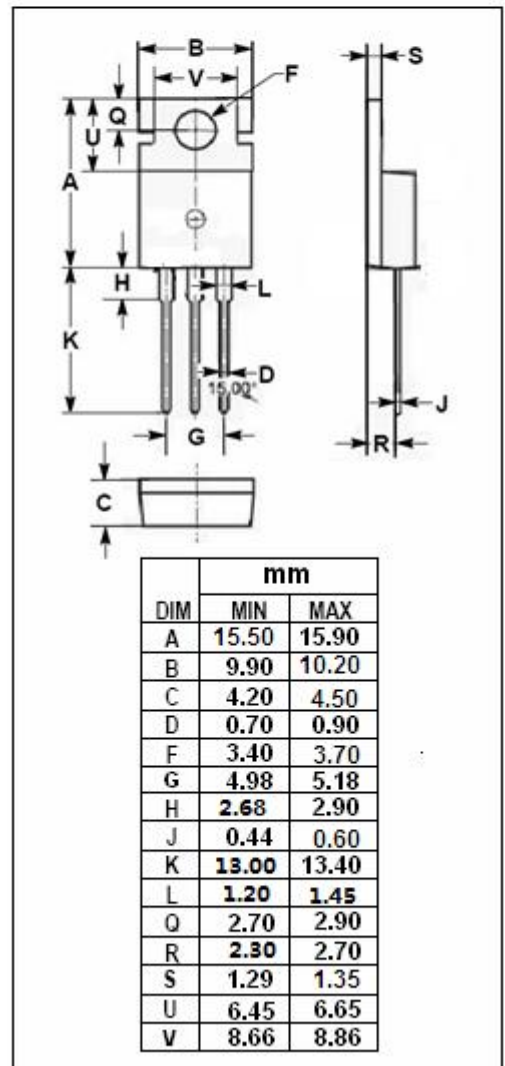
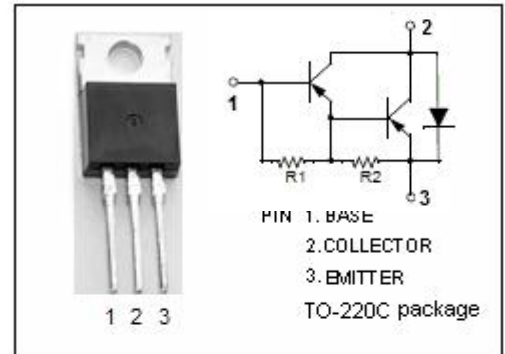
- Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-5	A
I_{CM}	Collector Current-Peak	-8	A
I_B	Base Current-DC	-120	mA
P_C	Collector Power Dissipation $T_C = 25^\circ\text{C}$	65	W
	Collector Power Dissipation $T_a = 25^\circ\text{C}$	2	
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.92	°C/W
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	62.5	°C/W



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA, I _B = 0	-80			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -3A, I _B = -12mA			-2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation voltage	I _C = -5A, I _B = -20mA			-4.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3.0A; V _{CE} = -3V			-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V, I _E = 0			-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -40V, I _B = 0			-0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2	mA
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -3V	1000			
h _{FE-2}	DC Current Gain	I _C = -3.0A; V _{CE} = -3V	1000			
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V, f= 0.1MHz			300	pF

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