

SPTECH Silicon NPN Power Transistor

BU2720DX

DESCRIPTION

- High Switching Speed
- High Voltage
- Built-in Ddamper Ddiode

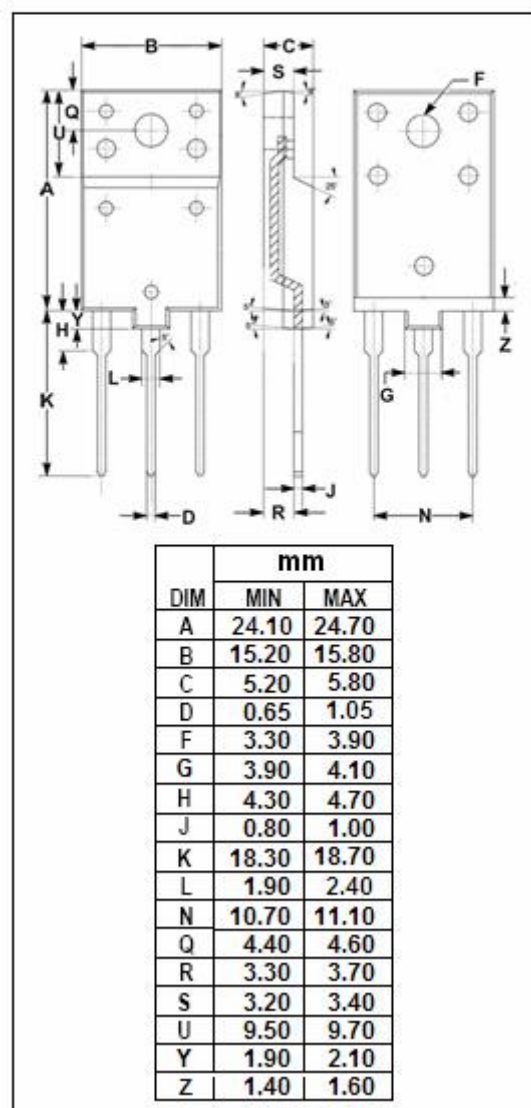
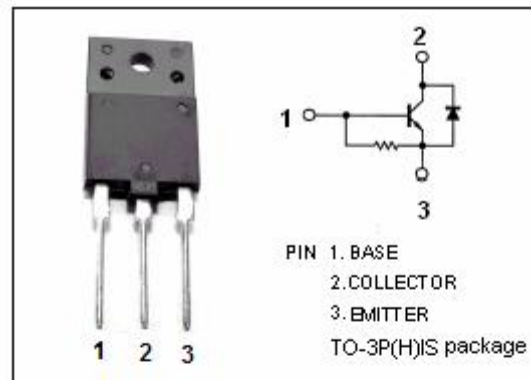
APPLICATIONS

- Designed for use in horizontal deflection circuits of color TV receivers.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CES}	Collector- Emitter Voltage($V_{BE}=0$)	1600	V
V_{CEO}	Collector-Emitter Voltage	825	V
V_{EBO}	Emitter-Base Voltage	7.5	V
I_C	Collector Current- Continuous	10	A
I_{CM}	Collector Current-Peak	25	A
I_B	Base Current- Continuous	10	A
I_{BM}	Base Current-Peak	14	A
P_C	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	45	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}\text{C}$

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance,Junction to Case	2.8	$^{\circ}\text{C/W}$



SPTECH Silicon NPN Power Transistor**BU2720DX****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 600mA; I _C = 0	7.5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5.5A; I _B = 1.38A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5.5A; I _B = 1.38A			1.0	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1600V ; V _{BE} = 0 V _{CE} = 1600V ; V _{BE} = 0; T _C =125°C			1.0 2.0	mA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V		19		
h _{FE-2}	DC Current Gain	I _C = 5.5A ; V _{CE} = 1V	4		7.5	
V _{ECF}	C-E Diode Forward Voltage	I _F = 5.5A		1.6		V