

## SPTECH Product Specification

### SPTECH Silicon NPN Power Transistor

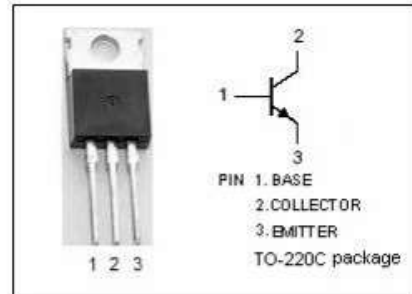
**BU406**

#### DESCRIPTION

- High Voltage:  $V_{CEV} = 400V(\text{Min})$
- Low Saturation Voltage-  
:  $V_{CE(\text{sat})} = 1.0V(\text{Max.}) @ I_C = 5A$

#### APPLICATIONS

- Designed for use in horizontal deflection output stages of TV's and CRT's



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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CB0}$	Collector-Base Voltage	400	V
$V_{CE0}$	Collector-Emitter Voltage	200	V
$V_{EB0}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current-Continuous	7	A
$I_{CP}$	Collector Current-Peak Repetitive	10	A
$I_{CP}$	Collector Current- Peak (10ms)	15	A
$I_B$	Base Current	4	A
$P_C$	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	60	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{\text{stg}}$	Storage Temperature Range	-55~150	$^\circ\text{C}$

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th } j-c}$	Thermal Resistance, Junction to Case	2.08	$^\circ\text{C}/\text{W}$
$R_{\text{th } j-a}$	Thermal Resistance, Junction to Ambient	70	$^\circ\text{C}/\text{W}$

