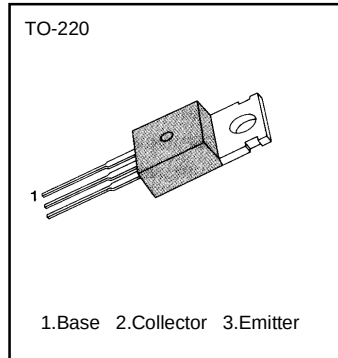


**FAST SWITCHING DARLINGTON
TRANSISTOR**
HIGH VOLTAGE DARLINGTON TRANSISTOR
USING IN HORIZONTAL OUTPUT STAGES
OF 110° CTR VIDEO DISPLAYS
 BUILT-IN SPEED-UP Diode Between Base and Emitter



ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage : BU806	V_{CBO}	400	V
: BU807		330	V
Collector-Emitter Voltage	V_{CEO}		
: BU806		200	V
: BU807		150	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	8	A
Collector Peak Current	I_C	15	A
Base Current	I_B	2	A
Collector Dissipation ($T_C=25^{\circ}\text{C}$)	P_C	60	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
* Collector-Emitter Sustaining Voltage	V_{CEO} (sus)					
: BU806		$I_C = 100\text{mA}, I_B = 0$	200			V
: BU807			150			V
Collector Cutoff Current	I_{CES}	$V_{CE} = 400\text{V}, V_{BE} = 0$			100	μA
: BU806		$V_{CE} = 330\text{V}, V_{BE} = 0$			100	μA
Collector Cutoff Current	I_{CEV}	$V_{CE} = 400\text{V}, V_{BE} = -6\text{V}$			100	μA
: BU806		$V_{CE} = 330\text{V}, V_{BE} = -6\text{V}$			100	μA
Emitter Cutoff Current	I_{EBO}	$V_{BE} = 6\text{V}, I_C = 0$			3	mA
* Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 5\text{A}, I_B = 50\text{mA}$			1.5	V
* Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 5\text{A}, I_B = 50\text{mA}$			2.4	V
* Damper Diode Forward Voltage	V_F	$I_F = 4\text{A}$			2	V

* Pulsed : pulsed duration = 300 μs , duty cycle = 1.5%

**NPN EPITAXIAL
SILICON DARLINGTON TRANSISTOR**

