

Ordering Information

Part Number	Marking	Package	Packing Method	
BD13516S	BD135-16		Bulk	
BD1356STU	BD135-6			
BD13510STU	BD135-10			
BD13516STU	BD135-16		Rail	
BD13716STU	BD137-16			
BD13710STU	BD137-10	TO-126 3L		
BD13716S	BD137-16	10-120 SL	Bulk	
BD13916STU	BD139-16		Rail	
BD13910S	BD139-10		Bulk	
BD13916S	BD139-16		Bulk	
BD1396STU	BD139-6		Rail	
BD13910STU	BD139-10		Kall	

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_c = 25^{\circ}C$ unless otherwise noted.

Symbol Parameter			Value	Units
		BD135	45	
V _{CBO}	V _{CBO} Collector-Base Voltage	BD137	60	V
		BD139	80	
		BD135	45	
V _{CEO}	Collector-Emitter Voltage	BD137	60	V
		BD139	80	
V _{EBO}	Emitter-Base Voltage		5	V
۱ _C	Collector Current (DC)		1.5	A
I _{CP}	Collector Current (Pulse)		3.0	A
I _B	Base Current		0.5	A
Р	Davias Dissinction	T _C = 25°C	12.5	W
P _C	Device Dissipation	T _A = 25°C	1.25	W
ТJ	Junction Temperature		150	°C
T _{STG}	Storage Temperature		- 55 to +150	°C

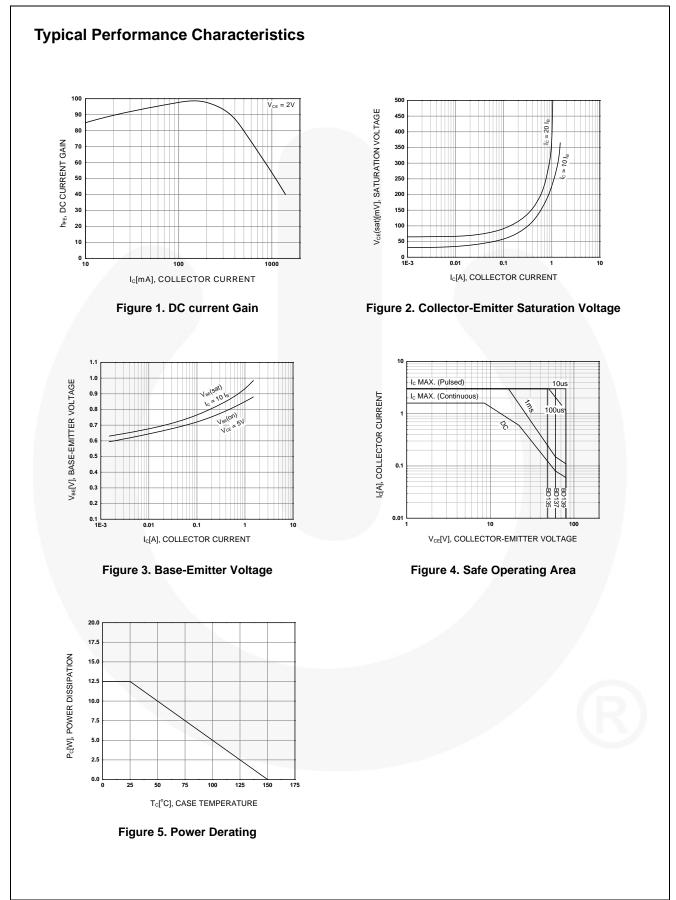
Electrical Characteristics

Values are at $T_C = 25^{\circ}C$ unless otherwise noted.

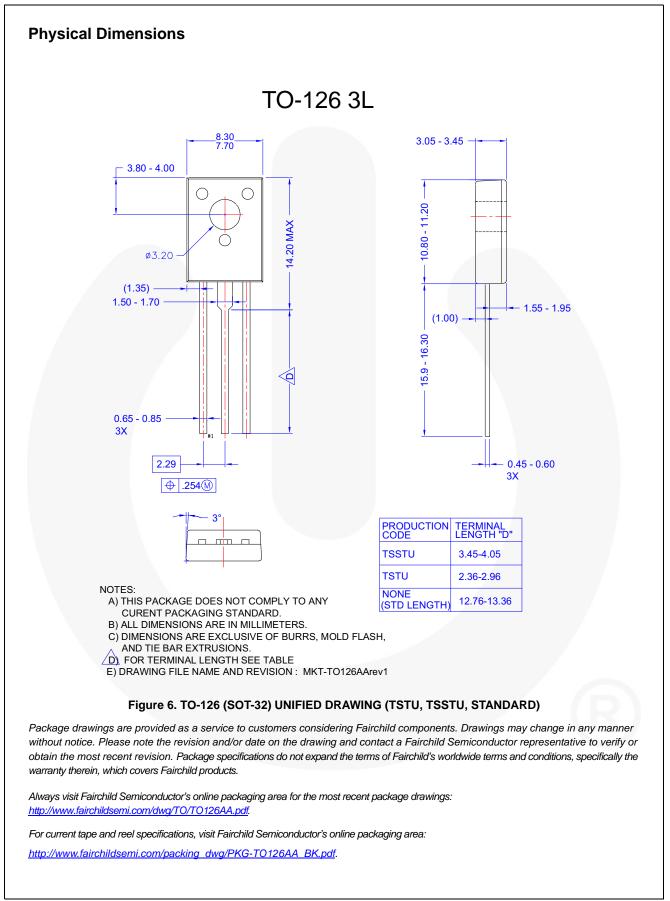
Symbol	Parameter		Test Condition	Min.	Тур.	Max.	Units
	Collector Emitter Suctoining	BD135		45			
V _{CEO} (sus)	V _{CEO} (sus) Collector-Emitter Sustaining Voltage	BD137	I _C = 30 mA, I _B = 0	60			V
		BD139		80			
I _{CBO}	Collector Cut-off Current		$V_{CB} = 30 \text{ V}, I_{E} = 0$		p.	0.1	μΑ
I _{EBO}	Emitter Cut-off Current		$V_{EB} = 5 V, I_{C} = 0$			10	μA
h _{FE1}			$V_{CE} = 2 V, I_{C} = 5 mA$	25			7
h _{FE2}	DC Current Gain		$V_{CE} = 2 \text{ V}, \text{ I}_{C} = 0.5 \text{ A}$	25			
h _{FE3}			$V_{CE} = 2 \text{ V}, I_{C} = 150 \text{ mA}$	40		250	
V _{CE} (sat)	Collector-Emitter Saturation Voltage Base-Emitter On Voltage		$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 50 \text{ mA}$			0.5	V
V _{BE} (on)			$V_{CE} = 2 \text{ V}, \text{ I}_{C} = 0.5 \text{ A}$			1	V

h_{FE} Classification

Classification	6	10	16	
h _{FE3}	40 ~ 100	63 ~ 160	100 ~ 250	



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