

# **NPN Epitxial Silicon Transistor**

Absolute Maximum Ratings Tc=25°C unless otherwise noted

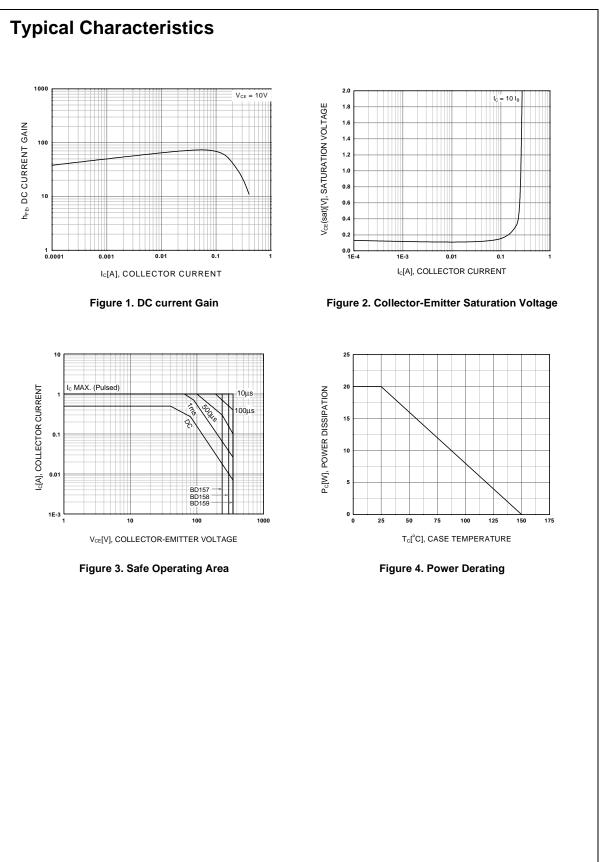
Symbol	Parameter		Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	: BD157	275	V
020	- FB7 -156.00	: BD158	325	V
	WWW.WL	: BD159	375	V
V <sub>CEO</sub>	Collector-Emitter Voltage	: BD157	250	V
		: BD158	300	V
		: BD159	350	V
V <sub>EBO</sub>	Emitter-Base Voltage		5	V
I <sub>C</sub>	Collector Current (DC)		0.5	A
I <sub>CP</sub>	*Collector Current (Pulse)		1.0	A
I <sub>B</sub>	Base Current	sea her	0.25	A
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	1.52	20	W
TJ	Junction Temperature		50	°C
T <sub>STG</sub>	Storage Temperature		- 65 ~ 150	°C

# Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

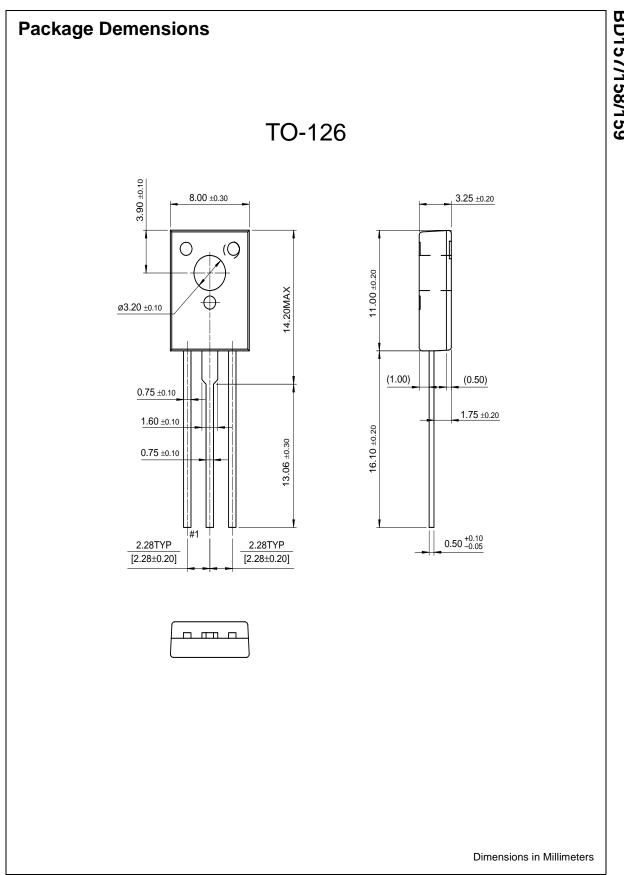
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CEO</sub>	*Collector-Emitter Breakdown Voltage					-1.5
	: BD157	$I_{\rm C} = 1 {\rm mA}, \ I_{\rm B} = 0$	250		-5-1	V
	: BD158		300		NV:	V
	: BD159		350	2.2	025	V
I <sub>CBO</sub>	Collector Cut-off Current		2. 10	11 44		
	: BD157	$V_{CB} = 275V, I_E = 0$	1.		100	μΑ
	: BD158	$V_{CB} = 325V, I_E = 0$			100	μA
	: BD159	$V_{CB} = 375V, I_E = 0$			100	μA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$			100	μΑ
h <sub>FE</sub>	* DC Current Gain	$V_{CE} = 10V, I_{C} = 50mA$	30		240	

\* Pulse Test: PW=300µs, duty Cycle=1.5% Pulsed





# BD157/158/159



# BD157/158/159

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