

SEMICONDUCTOR®

## BD157/158/159

## Low Power Fast Switching Output Stages

• For T.V Radio Audio Output Amplifiers



# NPN Epitxial Silicon Transistor

Absolute Maximum Ratings  $T_{C}=25^{\circ}C$  unless otherwise noted

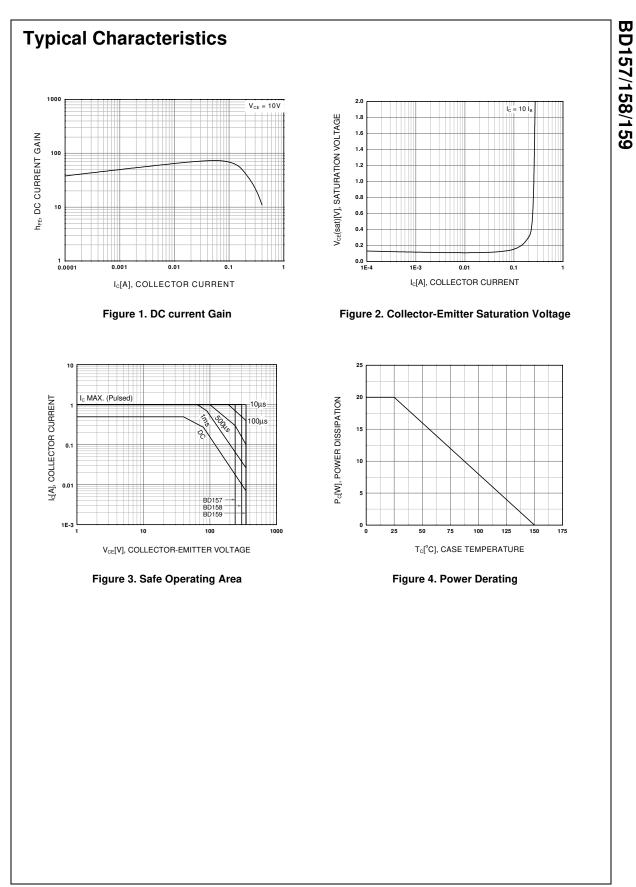
Symbol	Paramet	er	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	: BD157	275	V
	_	: BD158	325	V
		: BD159	375	V
/ <sub>CEO</sub>	Collector-Emitter Voltage	: BD157	250	V
		: BD158	300	V
		: BD159	350	V
ebo	Emitter-Base Voltage		5	V
С	Collector Current (DC)		0.5	Α
CP	*Collector Current (Pulse)		1.0	А
В	Base Current		0.25	Α
°c	Collector Dissipation (T <sub>C</sub> =25°C)		20	W
Гј	Junction Temperature		50	°C
Г <sub>STG</sub>	Storage Temperature		- 65 ~ 150	°C

### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

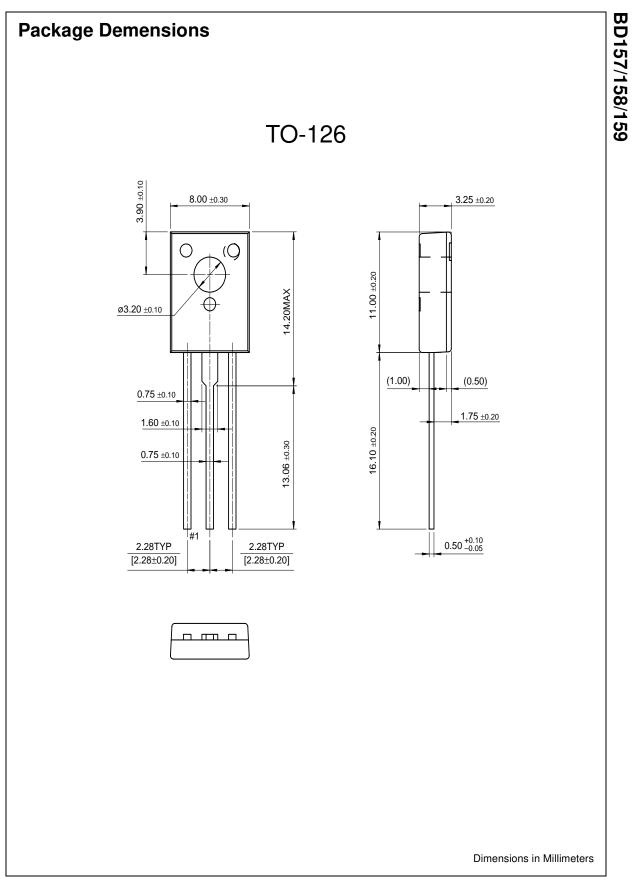
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CEO</sub>	*Collector-Emitter Breakdown Voltage					
	: BD157	I <sub>C</sub> = 1mA, I <sub>B</sub> = 0	250			V
	: BD158	-	300			V
	: BD159		350			V
I <sub>CBO</sub>	Collector Cut-off Current					
	: BD157	V <sub>CB</sub> = 275V, I <sub>E</sub>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

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

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Product status/pricing/packaging

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\* 1,000 piece Budgetary Pricing

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