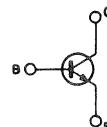


**SSS**BD157  
BD158  
BD159**EPITAXIAL PLANAR NPN****ADVANCE DATA****LOW POWER FAST SWITCHING**

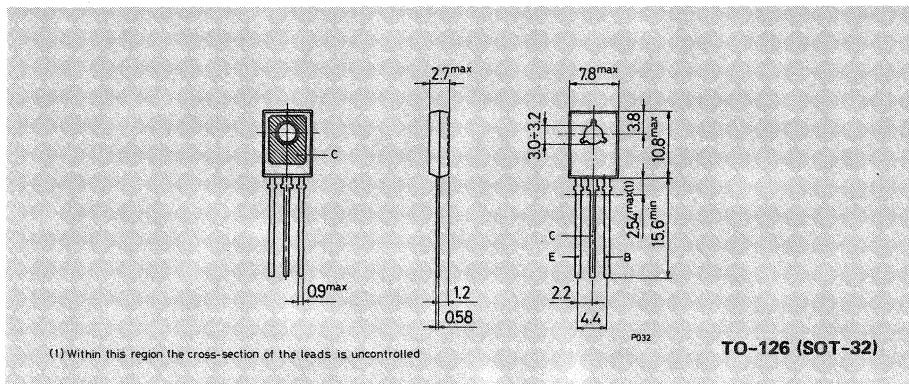
The BD157, BD158 and BD159 are silicon epitaxial planar NPN transistors in TO-126 plastic package, intended for applications in output stages for television, radio, phonograph and other consumer product.

**ABSOLUTE MAXIMUM RATINGS**

		<b>BD157</b>	<b>BD158</b>	<b>BD159</b>
$V_{CBO}$	Collector-base voltage ( $I_E = 0$ )	275V	325V	375V
$V_{CEO}$	Collector-emitter voltage ( $I_B = 0$ )	250V	300V	350V
$V_{EBO}$	Emitter-base voltage ( $I_C = 0$ )	5V		
$I_C$	Collector current	0.5A		
$I_{CM}$	Collector peak current	1A		
$I_B$	Base current	0.25A		
$P_{tot}$	Total power dissipation at $T_{case} < 25^\circ\text{C}$	20W		
$T_{stg}$	Storage temperature	-65 to $150^\circ\text{C}$		
$T_J$	Junction temperature	150°C		

**INTERNAL SCHEMATIC DIAGRAM****MECHANICAL DATA**

Dimensions in mm





BD157  
BD158  
BD159

## THERMAL DATA

$R_{th \ j-case}$	Thermal resistance junction-case	max 6.25 $^{\circ}\text{C/W}$
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## ELECTRICAL CHARACTERISTICS ( $T_{case} = 25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Test conditions	Min.	Typ.	Max.	Unit
$I_{CBO}$	Collector cutoff current ( $I_E = 0$ )		100		$\mu\text{A}$
$I_{EBO}$	Emitter cutoff current ( $I_C = 0$ )		100		$\mu\text{A}$
$V_{CEO}^*$	Collector-emitter voltage	$I_C = 1\text{mA}$ for BD157 for BD158 for BD159	250 300 350		V
$h_{FE}^*$	DC current gain	$I_C = 50\text{mA}$ $V_{CE} = 10\text{V}$	30	240	-

\* Pulsed: pulse duration = 300 $\mu\text{s}$ , duty cycle = 1.5%