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MJE340 Silicon NPN Transistor Audio Power Amp, High Voltage Converter TO-126 Type Package

Description:

The MJE340 is a silicon NPN transistor in a TO-126 type package designed for high-voltage, general purpose applications.

Features:

- Suitable for Transformerless, Line-Operated Equipment
- High Power Dissipation Rating for High Reliability

Absolute Maximum Ratings: (Note 1)

Collector-Emitter Voltage, V_{CEO}	300V
Emitter-Base Voltage, V_{EB}	3V
Continuous Collector Current, I_C	500mA
Base Current, I_B	250mA
Total Power Dissipation ($T_C = +25^\circ\text{C}$), P_D	20W
Derate Above 25°C	0.16W/ $^\circ\text{C}$
Operating Junction Temperature Range, T_J	-65° to $+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-65° to $+150^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	6.25 $^\circ\text{C}/\text{W}$

Note 1. Stresses exceeding those listed in the Absolute Maximum ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Electrical Characteristics: ($T_C = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF Characteristics						
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = 1\text{mA}, I_B = 0$	300	-	-	V
Collector Cutoff Current	I_{CEO}	$V_{CB} = 300\text{V}, I_E = 0$	-	-	100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 3\text{V}, I_C = 0$	-	-	100	μA
ON Characteristics						
DC Current Gain	h_{FE}	$I_C = 50\text{mA}, V_{CE} = 10\text{V}$	30	-	240	

