



BD135
BD139

NPN SILICON TRANSISTORS

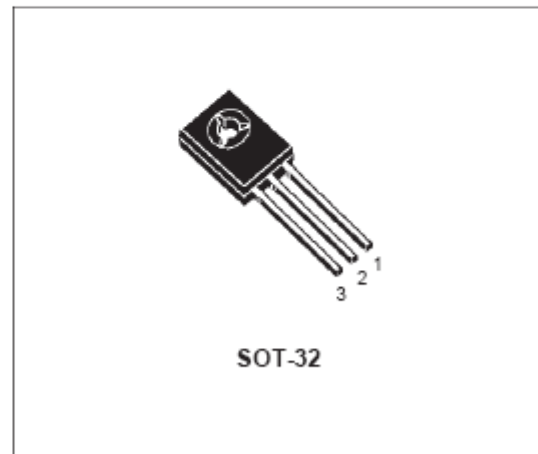
Type	Marking
BD135	BD135
BD135-10	BD135-10
BD135-16	BD135-16
BD139	BD139
BD139-10	BD139-10
BD139-16	BD139-16

- STMicroelectronics PREFERRED SALESTYPES

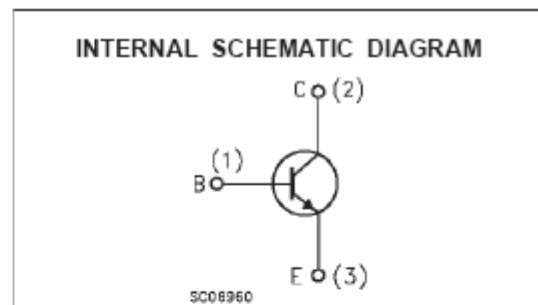
DESCRIPTION

The BD135 and BD139 are silicon Epitaxial Planar NPN transistors mounted in Jedec SOT-32 plastic package, designed for audio amplifiers and drivers utilizing complementary or quasi-complementary circuits.

The complementary PNP types are BD136 and BD140 respectively.



SOT-32



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value		Unit
		BD135	BD139	
V_{CB0}	Collector-Base Voltage ($I_E = 0$)	45	80	V
V_{CE0}	Collector-Emitter Voltage ($I_B = 0$)	45	80	V
V_{EB0}	Emitter-Base Voltage ($I_C = 0$)	5		V
I_C	Collector Current	1.5		A
I_{CM}	Collector Peak Current	3		A
I_B	Base Current	0.5		A
P_{tot}	Total Dissipation at $T_C \leq 25\text{ }^\circ\text{C}$	12.5		W
P_{tot}	Total Dissipation at $T_{amb} \leq 25\text{ }^\circ\text{C}$	1.25		W
T_{stg}	Storage Temperature	-65 to 150		$^\circ\text{C}$
T_J	Max. Operating Junction Temperature	150		$^\circ\text{C}$

Output characteristics $I_C = f(V_{CE})$

$I_B = \text{parameter}$

BD 135, BD 137, BD 139

