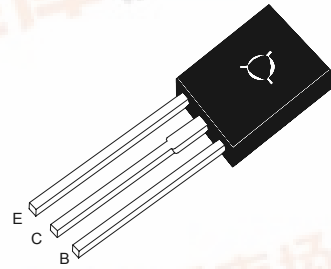


BD135T / BD137T / BD139T

[查询"BD135T"供应商](#)

NPN SILICON EPITAXIAL POWER TRANSISTOR

These devices are designed as Audio Amplifier and Drivers Utilizing.



TO-126 Plastic Package

Absolute Maximum Ratings ($T_a=25\text{ }^\circ\text{C}$)

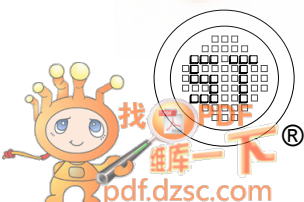
Parameter	Symbol	Value			Unit
		BD135T	BD137T	BD139T	
Collector Emitter Voltage	V_{CEO}	45	60	80	V
Collector Emitter Voltage ($R_{BE} = 1\text{ K}\Omega$)	V_{CER}	45	60	100	V
Collector Base Voltage	V_{CBO}	45	60	100	V
Emitter Base Voltage	V_{EBO}	5			V
Collector Current - Continuous	I_C	1.5			A
Collector Current - Peak ¹⁾	I_{CM}	2			A
Base Current - Continuous	I_B	0.5			A
Total Power Dissipation @ $T_A=25\text{ }^\circ\text{C}$ Derate above $25\text{ }^\circ\text{C}$	P_D	1.25	10		W mW/ $^\circ\text{C}$
Total Power Dissipation @ $T_C=25\text{ }^\circ\text{C}$ Derate above $25\text{ }^\circ\text{C}$	P_D	12.5	100		W mW/ $^\circ\text{C}$
Total Power Dissipation @ $T_C=70\text{ }^\circ\text{C}$	P_D	8			W
Operating and Storage Junction Temperature Range	T_J, T_S	-55 to +150			$^\circ\text{C}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	100			$^\circ\text{C/W}$
Thermal Resistance, Junction to Case	$R_{\theta JC}$	10			$^\circ\text{C/W}$

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Dated : 22/03/2006

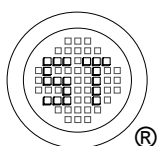


BD135T / BD137T / BD139T

[查询"BD135T"供应商](#)

Characteristics at T_a=25 °C

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain				
at V _{CE} = 2 V, I _C = 5 mA	h _{FE}	25	-	-
at V _{CE} = 2 V, I _C = 500 mA	h _{FE}	25	-	-
at V _{CE} = 2 V, I _C = 150 mA	h _{FE}	40	100	-
	h _{FE}	63	160	-
	h _{FE}	100	250	-
	h _{FE}	160	400	-
Collector Emitter Sustaining Voltage				
at I _C = 30 mA	BD135T V _{CEO(sus)}	45	-	V
	BD137T V _{CEO(sus)}	60	-	V
	BD139T V _{CEO(sus)}	80	-	V
Collector Cutoff Current				
at V _{CB} = 30 V	I _{CBO}	-	0.1	μA
Emitter Cutoff Current				
at V _{EB} = 5 V	I _{EBO}	-	10	μA
Collector Emitter Saturation Voltage				
at I _C = 500 mA, I _B = 50 mA	V _{CE(sat)}	-	0.5	V
Base Emitter On Voltage				
at I _C = 500 mA, V _{CE} = 2 V	V _{BE(on)}	-	1	V



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 71116



ISO 9001:2000
Certificate No. 0506098

Dated : 22/03/2006