General Purpose Transistor multicomp PRO





Features

- NPN Silicon Planar Epitaxial Transistors.
- Complementary Transistors for use in Driver and Output Stages of Audio Amplifiers

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	
Collector-Emitter Voltage	VCEO	45		
Collector-Emitter Voltage	Vces	50	V	
Emitter-Base Voltage	VEBO	5		
Collector Current Continuous Peak	Iс Ісм	800 1	mA A	
Emitter Current Peak	ІЕМ	1	Α	
Base Current Continuous	Ів	100	m Λ	
Base Current Peak	Івм	200	mA	
Power Dissipation at Ta = 25°C Derate above 25°C	Рта	625 5	mW mW/°C	
Operating and Storage Junction Temperature Range	Тл, Тэтс	-65 to +150	°C	
Thermal Resistance				
From Junction to Ambient in Free Air	Rth(j-a)	200	°C/W	

Electrical Characteristics (TA = 25°C Unless Otherwise Specified)

Parameter	Symbol	Test Condition	Value	Unit	
Collector-Emitter Voltage	VCEO VCES	Ic = 10mA, I _B = 0 Ic = 100μA. I _E = 0	>45 >50	V	
Emitter-Base Voltage	VEBO	Iε = 10μA, Ic = 0	>5		
Collector-Cut off Current	Ісво	V _{CB} = 20V, I _E = 0 V _{CB} = 20V, I _E = 0, T _J = 150°C	<100 <5	nΑ μΑ	
Emitter Cut off Current	ІЕВО	V _{EB} = 5V, I _C = 0	<10	μA	
DC Current Gain	hFE*	Ic = 100mA, VCE = 1V Group 16 Group 25	100-600 100-250 160-400	-	
Collector Emitter Saturation Voltage	lector Emitter Saturation Voltage		<0.7	V	
Base Emitter on Voltage	V _{BE(on)} *	* Ic = 500mA, VcE = 1V		v	

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Parameter	Symbol	Test Condition	Value	Unit
Dynamic Characteristics				
Transistors Frequency	f⊤	Ic = 10mA, VcE = 5V, f = 35MHz	200 (Typ.)	MHz
Output Capacitance	Cob	Vcв = 10V, f = 1МНz	5 (Typ.)	pF

^{*} Pulse Test : Pulse Width = 300µs, Duty Cycle = 2%

Specifications Table

V _{CEO} Maximum (V)	V _{CES} Maximum (V)	Ic (A)	hfe Minimum at Ic = 100mA	F⊤ Minimum (Typical*) F = 35MHz	Ptot (mW)	Package
45	50	0.5	100-600	60	625	TO-92

Part Number Table

Description	Part Number	
Bipolar (BJT) Single Transistor, NPN, 45V, 100MHz, 500mA,	BC337	

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