ECIRO E

8550

GENERAL DESCRIPTION:-

The 8550 is a PNP epitaxial silicon planar transistor designed for use in the audio output stage and converter/inverter circuits. Complementary to 8050.



TO-92A

EBC

ABSOLUTE MAXIMUM RATINGS (Note 1)

Maximum Temperatures

Storage Temperature -55°C to +135°C Operating Temperature 135°C Lead Temperature (soldering, 10 seconds time limit) 230°C

Maximum Power Dissipation

Total Dissipation at 25°C Ambient Temperature (Note 2) 1.0 Watt Total Dissipation at 25°C case temperature (Note 2) 3.0 Watt

Maximum Voltage

VCBO	Collector to Base Voltage	30V
VCEO	Collector Emitter Voltage (Note 3)	25V
VEBO	Emitter to Base Voltage	6V
¹ C	Collector current (Continuous)	1.5A

FI FCTRICAL CHARACTERISTICS (25°C Free Air Temperature unless otherwise noted)

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
HFE1	DC current gain (Note 4)	85		300		Ic = 100mA Vce = 1V
HFE2	DC current gain					Ic = 800mA Vce = 1V
VCE (SAT)	Collector Saturation Voltage (Note 4)		0.2	0.5	V	Ic = 800mA Ib = 80mA
VBE (SAT)	Base-Saturation Voltage (Note 4)		0,92	1.2	V	ic = 800mA ib = 80mA
LVceo	Colector to Emitter breakdown Voltage (Note 3 & 4)	25			٧	Ic = 10mA Ib = 0
BVcbo	Collector to Base breakdown Voltage	30			v	Ic = 100uA Ie = 0
BVebo	Emitter to Base breakdown Voltage				V	le = 100uA lc = 0
Icbo	Collector cut off current			0.1	uA	Vcb= 20V le = 0
hfe	High frequency current gain	1.0				Ic = 50mA Vce = 10V
						f = 100MHz
Ccb	Collector to Base capacitance			40	ρF	Vcb= 10V lc = 0
						f = 1MHz

NOTES:

- (1) These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
- (2) These ratings give a maximum junction temperature of 145°C, junction to ambient thermal resistance of 120°C/Watt (derating factor of 8.33mW/°C) and junction to case thermal resistance of 40°C/W (derating factor of 25mW/°C)
- (3) Rating refers to a high-current point where collector-to-emitter voltage is lowest.
- (4) Pulse Conditions: length \leq 300 us; duty cycle \leq 2%

CLASSIFICATION OF HFE GROUPS

GROUP	MIN	MAX /	TEST CONDITION		
В	85	160	Ic = 100mA		
С	120	200	Ic = 100mA		
D	160	300	Ic = 100mA		



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