NTE ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089
http://www.nteinc.com

RoHS 2002/95/EC

NTE2324
Silicon NPN Transistor
Color TV Horizontal Deflection Output
TO3PML Type Package

Applications:

- Color TV Horizontal Deflection Output

Features:

- High Speed (t_f = 100nsec)
- High Breakdown Voltage (V_{CBO} = 1500V)
- High Reliability (adoption of HVP process)

Absolute Maximum Ratings:

Collector to Base Voltage, V_{CBO} 1500V
Collector to Emitter Voltage, V_{CEO} 800V
Emitter to Base Voltage, V_{EBO} 6V
Collector Current, I_C
  Continuous 8A
  Peak 30A
Collector Dissipation (T_C = +25°C), P_C 70W
Junction Temperature, T_J . . . . . +150°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CES}	V_{CE} = 1500V	–	–	1.0	mA
	I_{CBO}	V_{CB} = 800V	–	–	10	μA
Collector Sustain Voltage	$V_{CEO(sus)}$	I_C = 100mA, I_B = 0	800	–	–	V
Emitter Cutoff Current	I_{EBO}	V_{EB} = 4V	–	–	1.0	mA
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 6A, I_B = 1.2A	–	–	5.0	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	I_C = 6A, I_B = 1.2A	–	–	1.5	V
DC Current Gain	h_{FE}	V_{CE} = 5V, I_C = 1A	8	–	–	
		V_{CE} = 5V, I_C = 6A	5	–	13	
Fall Time	t_f	I_C = 6A, I_{B1} = 1.2A, I_{B2} = 2.4A	–	0.1	0.3	μs

Rev. 4–11