



ELECTRONICS, INC.
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NTE2366

Silicon PNP Transistor High Voltage Video Amp (Compl to NTE399)

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Collector–Base Voltage, V_{CBO}	300V
Collector–Emitter Voltage, V_{CEO}	300V
Emitter–Base Voltage, V_{EBO}	5V
Collector Current, I_C	
Continuous	100mA
Peak	200mA
Power Dissipation, P_C	1.0W
Operating Junction Temperature, T_j	+150°C
Storage Temperature Range, T_{stg}	–55° to +150°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 200V, I_E = 0$	–	–	0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$	–	–	0.1	μA
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu\text{A}, I_E = 0$	300	–	–	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, R_{BE} = \infty$	300	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu\text{A}, I_C = 0$	5	–	–	V
DC Current Gain	h_{FE}	$V_{CE} = 10V, I_C = 10\text{mA}$	40	–	320	
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	–	–	0.6	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	–	–	1.0	V
Current Gain–Bandwidth Product	f_T	$V_{CE} = 30V, I_C = 10\text{mA}$	–	150	–	MHz
Capacitance	C_{ob}	$V_{CB} = 30V, f = 1\text{MHz}$	–	2.6	–	pF
Reverse Transfer Capacitance	C_{re}	$V_{CB} = 30V, f = 1\text{MHz}$	–	1.8	–	pF

