

NTE16001 Silicon NPN Transistor Video IF Amp

Features:

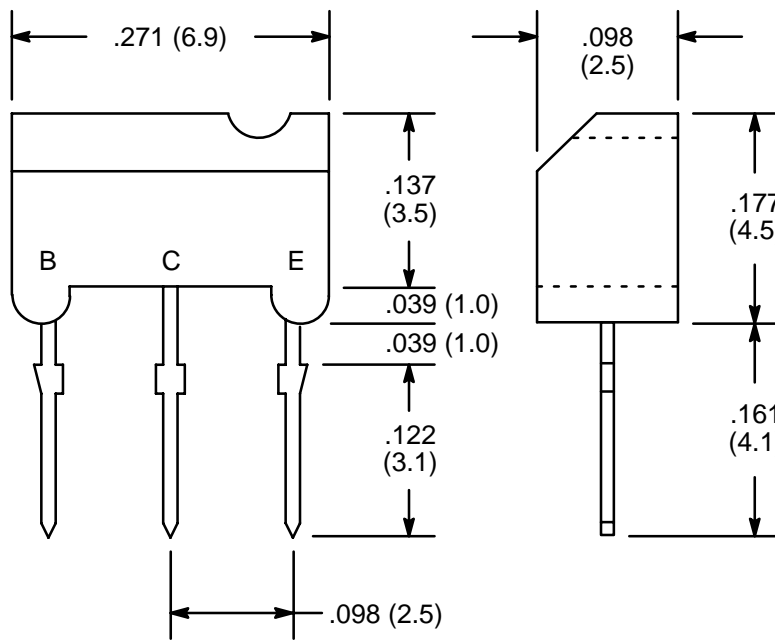
- High Transistion Frequency
- Good Linearity of DC Current Gain
- An M Type Mold package that Allows Easy Manual and Automatic Insertion. Can be Firmly Mounted Flush to PC Board Surface.

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

Collector–Base Voltage, V_{CBO}	45V
Collector–Emitter Voltage, V_{CEO}	35V
Emitter–Base Voltage, V_{EBO}	4V
Collector Current, I_C	50mA
Collector Power Dissipation, P_C	600mW
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_{CEO}	$V_{CE} = 20V, I_B = 0$	–	–	10	μA
Collector–Base Voltage	V_{CBO}	$I_C = 10\mu\text{A}, I_E = 0$	45	–	–	V
Collector–Emitter Voltage	V_{CEO}	$I_C = 1\text{mA}, I_B = 0$	35	–	–	V
Emitter–Base Voltage	V_{EBO}	$I_E = 10\mu\text{A}, I_C = 0$	4	–	–	V
DC Current Gain	h_{FE}	$V_{CB} = 10V, I_E = -10\text{mA}$	20	50	100	
Collector–Emitter Saturation Volatge	$V_{CE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	–	–	0.5	V
Transistion Frequency	f_T	$V_{CB} = 10V, I_E = -10\text{mA}, f = 100\text{MHz}$	300	500	–	MHz
Small–Signal Reverse Transfer Capacitance	C_{re}	$V_{CE} = 10V, I_C = 1\text{mA}$	–	–	1.5	pF
Power Gain	PG	$V_{CB} = 10V, I_E = -10\text{mA}, f = 58\text{MHz}$	–	18	–	dB



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