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NTE302 Silicon NPN Transistor AM, CB Transmitter Driver, Switch

Description:

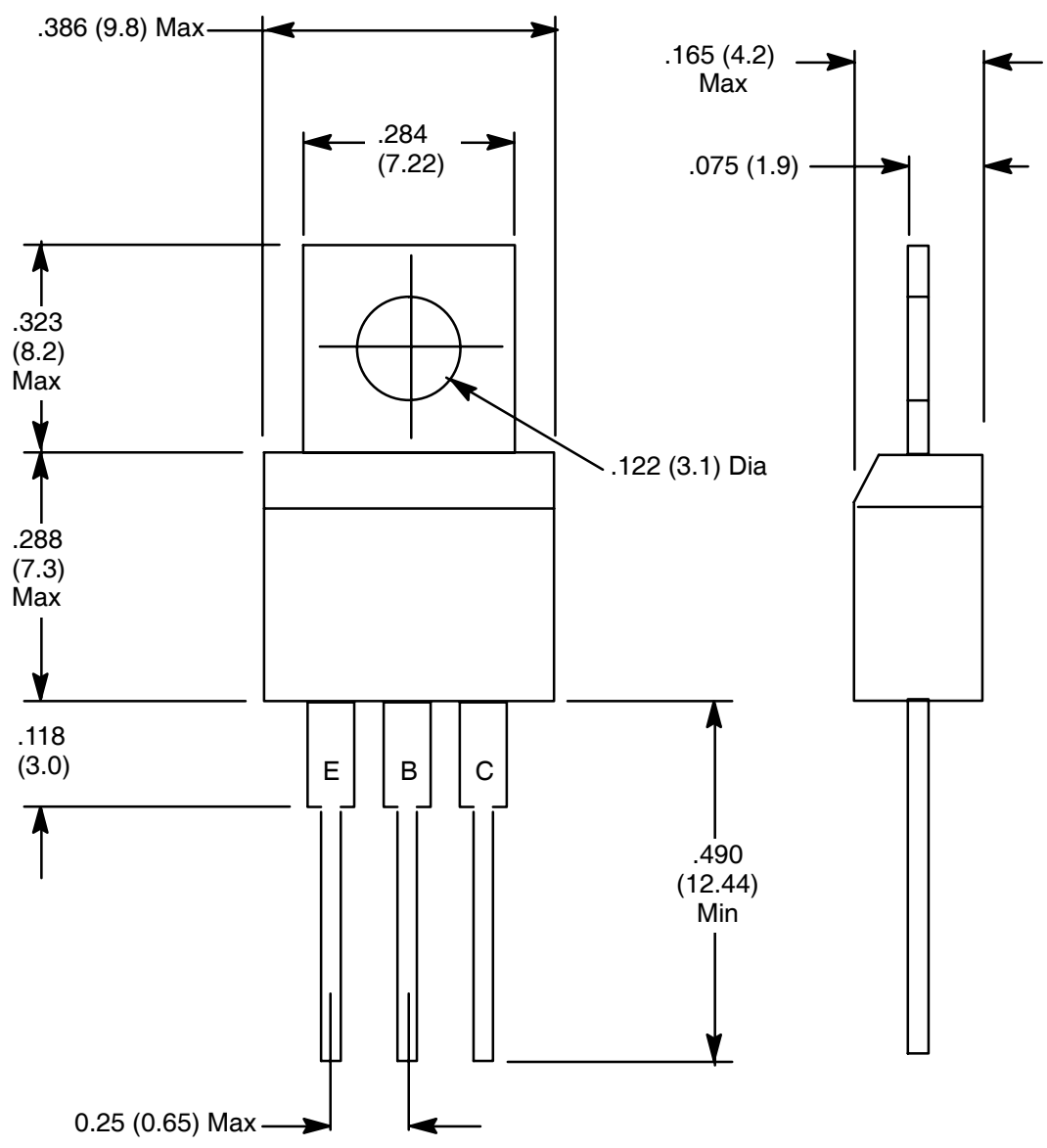
- 27-MHz AM CB Transmitter Driver Stage Switch

Absolute Maximum Ratings:

Collector-to-Base Voltage, V_{CBO}	100V
Collector-to-Emitter Voltage, V_{CEO}	50V
Emitter-to-Base Voltage, V_{EBO}	6V
Peak Collector Current, I_{CM}	1.5A
Base Current, I_B	0.5A
Collector Power Dissipation, P_C	
$T_A = +25^\circ\text{C}$	950mW
$T_C = +25^\circ\text{C}$	7.9W
Operating Junction Temperature, T_j	+150°C
Storage Temperature Range, T_{stg}	-50° to +150°C
Thermal Resistance, Junction-to-Case, R_{thJC}	12°C/W

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 25V, I_E = 0$	-	-	0.2	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 6V, I_C = 0$	-	-	0.2	μA
Base-Emitter Voltage	V_{BE}	$V_{CE} = 6V, I_C = 5\text{mA}$	-	-	0.7	V
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = 2\text{mA}$	50	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 1A, I_B = 50\text{mA}$	-	-	0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-	-	1.0	V
DC Current Gain	h_{FE1}	$V_{CE} = 2V, I_C = 100\text{mA}$	98	-	649	-
		$V_{CE} = 1V, I_C = 1A$	70	-	-	-
Small Signal Current Gain	$ h_{fe} $	$V_{CB} = 2V, I_E = -10\text{mA}, f = 10\text{MHz}$	-	18	-	dB
Collector Output Capacitance	C_C	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$	-	16	40	pF



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