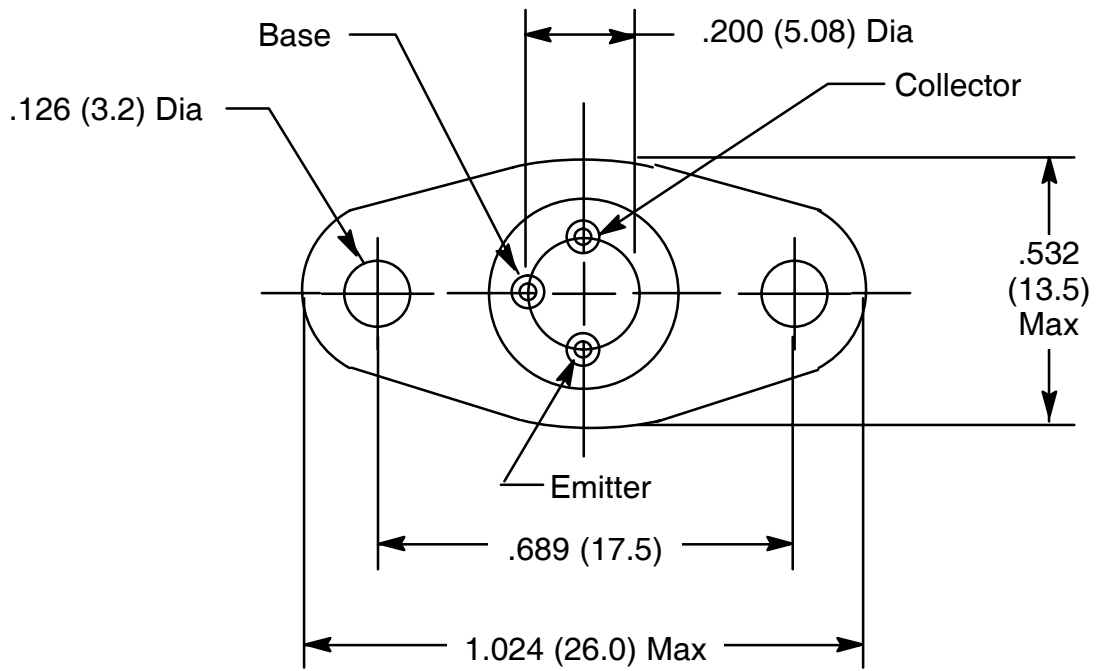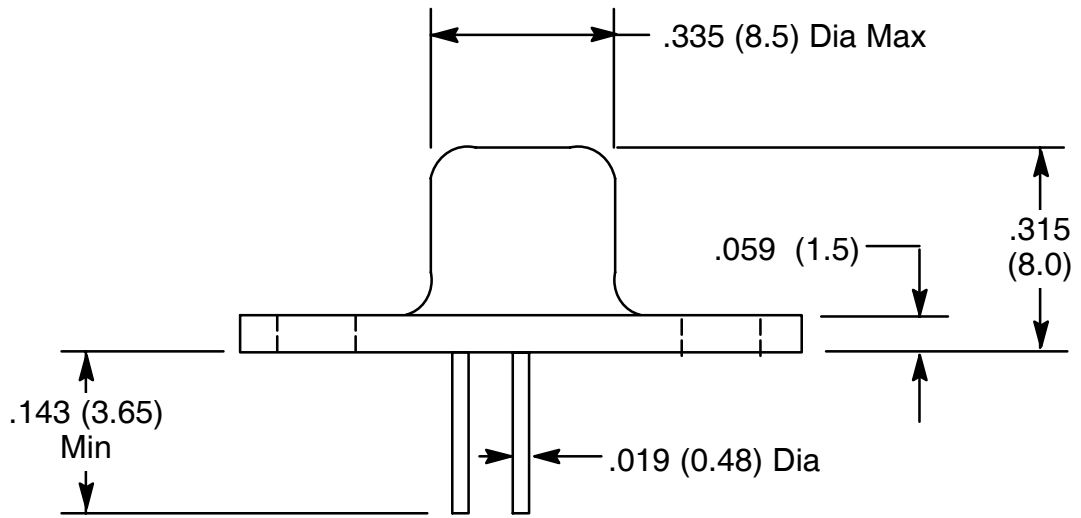# NTE237
Silicon NPN Transistor
RF Power Output
(P$_O$ = 3.5W, 27MHz)

Absolute Maximum Ratings: (T$_A$ = +25°C unless otherwise specified)

Collector–Base Voltage, V$_{CBO}$ 60V

Collector–Emitter Voltage (R$_{BE}$ = 10Ω), V$_{CER}$ 60V

Emitter–Base Voltage, V$_{EBO}$ 4V

Collector Current, I$_C$
      Continuous 2A
      Peak 4A

Emitter Current, I$_E$
      Continuous . . . . −2A
      Peak . . . . −4A

Power Dissipation (T$_C$ = +25°C), P$_C$ 10W

Operating Junction Temperature, T$_J$ . . . . +175°C

Storage Temperature Range, T$_{stg}$ . . . . −65° to +175°C

Electrical Characteristics: (T$_A$ = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I$_{CBO}$	V$_{CB}$ = 30V, I$_E$ = 0	–	–	10	μA
DC Current Gain	h$_{FE}$	V$_{CE}$ = 5V, I$_C$ = 500mA	10	30	140	
Collector–Emitter Saturation Voltage	V$_{CE(sat)}$	I$_C$ = 500mA, I$_B$ = 100mA	–	–	1.0	V
Base–Emitter Voltage	V$_{BE}$	V$_{CE}$ = 5V, I$_C$ = 500mA	–	–	1.2	V
Current Gain Bandwidth Product	f$_T$	V$_{CE}$ = 10V, I$_E$ = −200mA	150	300	–	MHz
Output Capacitance	C$_{ob}$	V$_{CB}$ = 10V, I$_E$ = 0, f = 1MHz	–	25	50	pF
Output Power	P$_O$	V$_{CC}$ = 12V, f = 50MHz, P$_{in}$ = 0.4W	4	5	–	W

.335 (8.5) Dia Max

.315 (8.0)

.059 (1.5)

.143 (3.65) Min

.019 (0.48) Dia

Base

.126 (3.2) Dia

.200 (5.08) Dia

Collector

.532 (13.5) Max

Emitter

.689 (17.5)

1.024 (26.0) Max

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