

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Power dissipation ⁽¹⁾	P _D	350	mW
RMS emitter current	I _E	70	mA
Peak pulse emitter current ⁽²⁾	i _e	2	Amps
Emitter reverse voltage	V _{B2E}	60	Volts
Interbase voltage	V _{B2B1}	65	Volts
Operating junction and storage temperature range	T _J	-65 to 175	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit
Intrinsic standoff ratio (V _{B2B1} = 10V) ⁽¹⁾	η	0.51	-	0.62	-
		0.51	-	0.62	
		0.56	-	0.68	
		0.56	-	0.68	
		0.62	-	0.75	
		0.62	-	0.75	
Interbase resistance (V _{B2B1} = 3V, I _E = 0)	r _{BB}	4.7	-	6.8	kohms
		6.2	-	9.1	
		4.7	-	6.8	
		6.2	-	9.1	
		4.7	-	6.8	
		6.2	-	9.1	
Emitter saturation voltage (V _{B2B1} = 10V, I _E = 50mA) ⁽²⁾	V _{EB1(sat)}	-	3.5	-	Volts
Modulated interbase current (V _{B2B1} = 10V, I _E = 50mA)	I _{B2(mod)}	-	15	-	mA
Emitter reverse current (I _{B1} = 0)	I _{EB20}	-	-	2	μA
				2	
				0.2	
Peak point emitter current (V _{B2B1} = 25V)	I _{EB20}	-	-	12	μA
				12	
				6	
				6	
Valley point current (V _{B2B1} = 20V, R _{B2} = 100ohms) ⁽²⁾	I _V	8	-	-	mA
Base-one peak pulse voltage ⁽³⁾	V _{OB1}	-	-	-	V
				3	
				-	
				3	
				-	

Note 1: Intrinsic standoff voltage: $\eta = V_P - V_F / V_{B2B1}$, where V_P = peak point emitter voltage, V_{B2B1} = interbase voltage, V_F = emitter to base one junction diode drop (≈ 0.45V @ 10μA).

Note 2: PW ≈ 300μs, duty cycle ≤ 2% to avoid internal heating due to interbase modulation which may result in erroneous readings

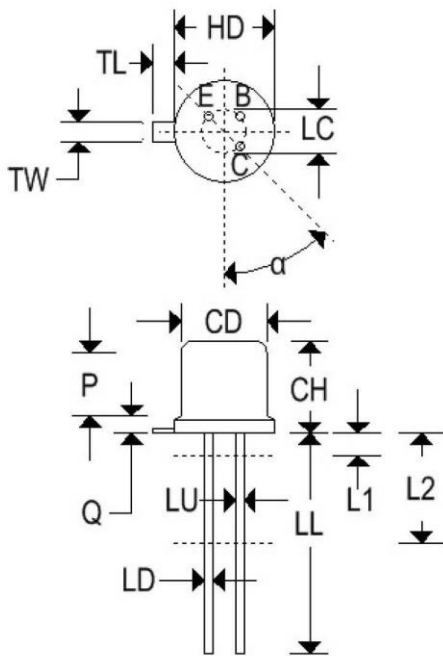
Note 3: Base one peak pulse voltage is used to ensure minimum pulse amplitude for applications in SCR firing circuits and other types of pulse circuits.

2N2417,A,B-2N2422,A,B,

SILICON UNIJUNCTION TRANSISTOR

MECHANICAL CHARACTERISTICS

Case:	TO-18
Marking:	Alpha-numeric
Pin Out:	See below



Dim	TO-18 (BJT)			
	Inches		Millimeters	
	Min	Max	Min	Max
CD	0.178	0.195	4.520	4.950
CH	0.170	0.210	4.320	5.330
HD	0.209	0.230	5.310	5.840
LC	0.100 TP		2.540 TP	
LD	0.016	0.021	0.410	0.530
LL	0.500	0.750	12.700	19.050
LU	0.016	0.019	0.410	0.480
L1	-	0.050	-	1.270
L2	0.250	-	6.350	-
P	0.100	-	2.540	-
Q	-	0.040	-	1.020
TL	0.028	0.048	0.710	1.220
TW	0.036	0.046	0.910	1.170
r	-	0.010	-	0.025
α	45°TP		45°TP	