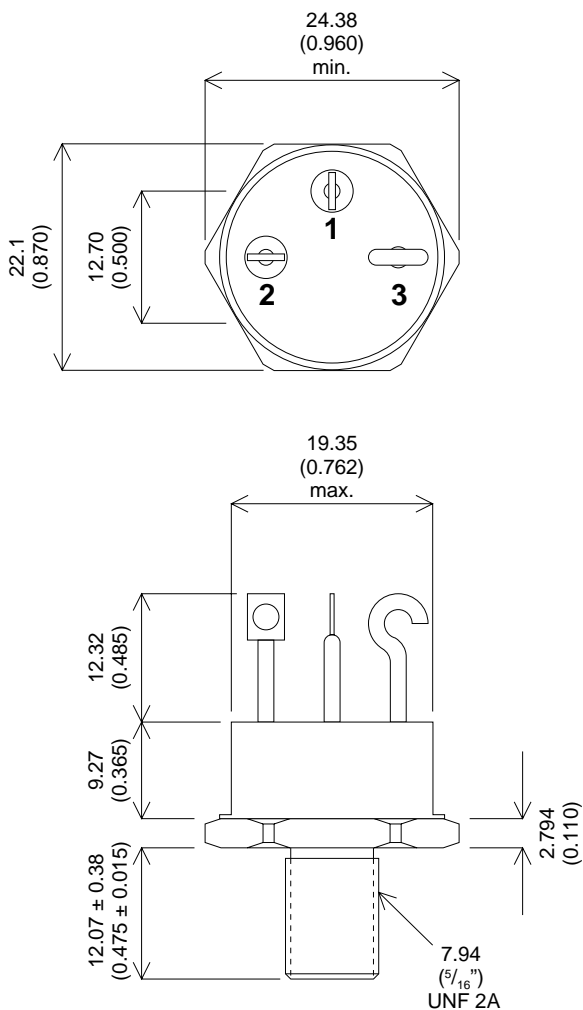


**MECHANICAL DATA**

Dimensions in mm (inches)



**NPN DRIVER TRANSISTOR**

- Bipolar Power Transistor
- TO-63 Hermetic Package
- Fast Switching

**TO-63 Metal Package.**

Pin 1 – Base      Pin 2 – Emitter      Case – Collector

**ABSOLUTE MAXIMUM RATINGS** ( $T_{case} = 25^{\circ}C$  unless otherwise stated)

$V_{CEO}$	Collector – Emitter Voltage	80V
$I_C$	Continuous Collector Current	20A
$P_D$	Total Device Dissipation	150W
	Derate above 100°C	0.67°C/W
$T_{STG}, T_J$	Storage and Operating Junction Temperature Range	-55 to +200°C

Parameter		Test Conditions		Min.	Typ.	Max.	Units
H <sub>FE1</sub>	Current Gain	V <sub>CE</sub> = 10V	I <sub>C</sub> = 1A	40			—
H <sub>FE2</sub>	Current Gain	V <sub>CE</sub> = 10V	I <sub>C</sub> = 10A	20			
h <sub>fe</sub>	Current Gain	V <sub>CE</sub> = 15V f = 1MHz	I <sub>C</sub> = 2A	30			—
V <sub>CE(sat)</sub>	Collector – Emitter Saturation Voltage	I <sub>C</sub> = 5A	I <sub>B</sub> = 0.5A			0.5	V
		I <sub>C</sub> = 10A	I <sub>B</sub> = 1A			2	
V <sub>BE(sat)</sub>	Base – Emitter Saturation Voltage	I <sub>C</sub> = 5A	I <sub>B</sub> = 0.5A			1	V
		I <sub>C</sub> = 10A	I <sub>B</sub> = 1A			2	
t <sub>on</sub>	Turn-On Time	I <sub>C</sub> = 10A				2	μs
t <sub>off</sub>	Turn-Off Time	I <sub>B1</sub> = I <sub>B2</sub> = 1A				2	