

# UNIUNCTIONS CONVENTIONAL

General Electric produces a very broad line of standard UJT's. The TO-5 ceramic disc bar structure device has been the workhorse of the unijunction industry for over 10 years. MIL versions are available on the 2N489-494 series. Equivalent types are available in TO-18 packages where small size is required.

The cube structure TO-18 series offers excellent value for those requiring proved, low cost units.

**Applications**  
Oscillators  
Timers  
Sawtooth Generators  
SCR Triggers  
Frequency Divider  
Stable Voltage Sensing

GE Type	R <sub>BO</sub> Interbase Resistance @ V <sub>BB</sub> = 3V (K $\Omega$ ) I <sub>E</sub> = 0	$\eta$ Intrinsic Standoff Ratio @ V <sub>BB</sub> = 10V	I <sub>V</sub> Valley Current Min. (mA)	I <sub>P</sub> Peak Point Emitter Current Max. ( $\mu$ A)	I <sub>EO</sub> Emitter Reverse Current		V <sub>OB1</sub> Base One Peak Pulse Voltage Min. (V)	Comments	Package Outline No.	Specification Sheet No.
					Max. ( $\mu$ A)	T <sub>J</sub> = 25°C @ V <sub>BE</sub> F				
2N489 2N489A * 2N489B	4.7- 6.8	.51-.62	8	12 12 6	2 2 0.2	60 60 30	— 3 3		31	60.10 60.10 60.11
2N490 2N490A * 2N490B 2N490C	6.2- 9.1	.51-.62	8	12 12 6 2	2 2 0.2 .02	60 60 30 30	— 3 3 3	"A" versions are guaranteed in recommended circuit to trigger GE SCR's over range T <sub>A</sub> = -55°C to 125°C.	31	60.10 60.11 60.11
2N491 2N491A * 2N491B	4.7- 6.8	.56-.68	8	12 12 6	2 2 0.2	60 60 30	— 3 3		31	60.10 60.10 60.11
2N492 2N492A * 2N492B 2N492C	6.2- 9.1	.56-.68	8	12 12 6 2	2 2 0.2 .02	60 60 30 30	— 3 3 3	"B" versions in addition to SCR triggering guarantees lower I <sub>EO</sub> and I <sub>P</sub> for long timing periods with a smaller capacitor.	31	60.10 60.11 60.11
2N493 2N493A * 2N493B	4.7- 6.8	.62-.75	8	12 12 6	2 2 0.2	60 60 30	— 3 3		31	60.10 60.10 60.11
2N494 2N494A * 2N494B 2N494C	6.2- 9.1	.62-.75	8	12 12 6 2	2 2 0.2 .02	60 60 30 30	— 3 3 3		31	60.10 60.10 60.11
2N1671 2N1671A 2N1671B 2N1671C	4.7- 9.1	.47-.62	8	25 25 6 2	12 12 0.2 .02	30 30 30 30	— 3 3 3	Industrial types.	31	60.50 60.50 60.50 60.50
2N2160	4.0-12.0	.47-.80	8	25	12	30	3	General purpose—low cost.	31	60.53
2N2417 2N2417A 2N2417B	4.7- 6.8	.51-.62	8	12 12 6	2 2 0.2	60 60 30	— 3 3		30	60.10 60.10 60.10
2N2418 2N2418A 2N2418B	6.2- 9.1	.51-.62	8	12 12 6	2 2 0.2	60 60 30	— 3 3	"A" versions are guaranteed in recommended circuit to trigger GE SCR's over range T <sub>A</sub> = -55°C to 125°C.	30	60.10 60.10 60.10
2N2419 2N2419A 2N2419B	4.7- 6.8	.56-.68	8	12 12 6	2 2 0.2	60 60 30	— 3 3		30	60.10 60.10 60.10
2N2420 2N2420A 2N2420B	6.2- 9.1	.56-.68	8	12 12 6	2 2 0.2	60 60 30	— 3 3	"B" versions in addition to SCR triggering guarantees lower I <sub>EO</sub> and I <sub>P</sub> for long timing periods with a smaller capacitor.	30	60.10 60.10 60.10
2N2421 2N2421A 2N2421B	4.7- 6.8	.62-.75	8	12 12 6	2 2 0.2	60 60 30	— 3 3		30	60.10 60.10 60.10
2N2422 2N2422A 2N2422B	6.2- 9.1	.62-.75	8	12 12 6	2 2 0.2	60 60 30	— 3 3		30	60.10 60.10 60.10
D5G514 D5G515 D5G516	4.7- 9.1	.47-.62	8	25 25 6 2	12 12 0.2 .02	30 30 30 30	— 3 3 3	TO-18 versions of 2N1671 industrial series.	30	— — —
2N2646	4.7- 9.1	.56-.75	4	5	12	30	3	General purpose.	29	60.62
2N2647	4.7- 9.1	.68-.82	8	2	0.2	30	6	For long timing periods and triggering high current SCR's.	29	60.62
D5E-43	4.7- 9.1	.68-.82	6	2	1	30	5	General purpose.	29	60.12
D5E-44	4.7- 9.1	.68-.82	4	5	12	30	4	General purpose—low cost.	29	60.13
2N2840	4.7- 9.1 <sup>2</sup>	.62 Typical	.2	10	1	30	—	For 1.5 volt applications.	29	60.56

\* JAN & JANTX types available  
<sup>2</sup> V<sub>BB</sub> = 1.5V

See selector guide—Unijunctions, Triggers, Switches page 33.

