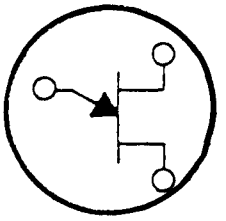
Trigger Devices

... **Wide Range of Sensitivities**
... Input Characteristics for Most Applications
... Industry Standards, with a variety of Custom Specifications available.



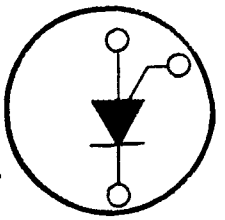
UJT

UNIJUNCTION TRANSISTORS – UJT

Highly stable devices for general-purpose trigger applications and as pulse generators (oscillators) and timing circuits. Useful at frequencies ranging (generally) from 1 Hz to 1 MHz. Available in low-cost plastic package TO-226AA (TO-92)

UNIJUNCTION TRANSISTORS – (UJT)

Package	Device Type	I_P Min	I_P Max	I_P μA Max	I_{EB20} μA Max	I_V mA Min
Plastic Case 29-02 TO-226AA (TO-92) 	2N4870	0.56	0.75	5.0	1.0	2.0
	2N4871	0.70	0.85	5.0	1.0	4.0
	MU4891	0.55	0.82	5.0	0.01	2.0
	MU4892	0.51	0.69	2.0	0.01	2.0
	MU4893	0.55	0.82	2.0	0.01	2.0
	MU4894	0.74	0.86	1.0	0.01	2.0
Metal Case 22A-01 TO-220AB (TO-18) 	2N2646	0.56	0.75	5.0	12	4.0
	2N2647	0.68	0.82	2.0	0.2	8.0



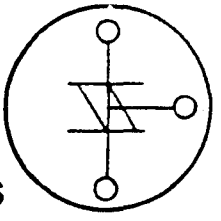
PUT

PROGRAMMABLE UNIJUNCTION TRANSISTORS – PUT

Similar to UJTs, except that I_V, I_P and intrinsic standoff voltage are programmable (adjustable) by means of external voltage divider. This stabilizes circuit performance for variations in device parameters. General operating frequency range is from 0.01 Hz to 10 kHz, making them suitable for long-duration timer circuits. Two-package availability provides cost option.

PROGRAMMABLE UNIJUNCTION TRANSISTORS – (PUT)

Package		Device Type	I_P R_G = 10kΩ μA Max	I_P R_G = 1.0 MΩ μA Max	I_{GAO} 40 V nA Max	I_V R_G = 10 kΩ μA Min	I_V R_G = 1.0 MΩ μA Max
Plastic Case 29-02 TO-226AA (TO-92)	A G k 	2N6027	5.0	2.0	10	70	50
		2N6028	1.0	0.15	10	25	25



SBS

SILICON BIDIRECTIONAL SWITCH – SBS

Applications similar to DIAC, but has gate electrode that permits synchronization.

SILICON BIDIRECTIONAL SWITCH – (SBS)

Package	Device Type	V_S Volts Min	V_S Volts Max	I_S μA Max	I_H mA Max
Plastic Case 29-02 TO-226AA (TO-92) 	MBS4991	6.0	10	500	1.5
	MBS4992	7.5	9.0	120	0.5