



PRODUCT NAME : 2N6028 Programmable
Unijunction Transistor (Pack of
5)

PRICE : Rs 20.00

SKU : RM2100



SEE THE PRODUCT PAGE FOR COMPLETE DATA SHEET Copyrights by Robomart.com

DESCRIPTION

Features

- Anode-Cathode Volt (V_{ak}): $\pm 40V$
- Gate-Cathode Forward Volt (V_{gkf}): 40V
- DC Forward Anode Current (I_t): 0.15A
- DC Gate Current (I_g): $\pm 50mA$
- Power Dissipation (P_{tot}): 300mW
- Type: Unijunction

2N6027, 2N6028

Preferred Device

Programmable Unijunction Transistor

Programmable Unijunction Transistor Triggers

Designed to enable the engineer to “program” unijunction characteristics such as R_{BB} , η , I_V , and I_P by merely selecting two resistor values. Application includes thyristor–trigger, oscillator, pulse and timing circuits. These devices may also be used in special thyristor applications due to the availability of an anode gate. Supplied in an inexpensive TO–92 plastic package for high–volume requirements, this package is readily adaptable for use in automatic insertion equipment.

- Programmable — R_{BB} , η , I_V and I_P
- Low On–State Voltage — 1.5 Volts Maximum @ $I_F = 50$ mA
- Low Gate to Anode Leakage Current — 10 nA Maximum
- High Peak Output Voltage — 11 Volts Typical
- Low Offset Voltage — 0.35 Volt Typical ($R_G = 10$ k ohms)
- Device Marking: Logo, Device Type, e.g., 2N6027, Date Code

MAXIMUM RATINGS ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Rating	Symbol	Value	Unit
*Power Dissipation Derate Above 25°C	P_F $1/\theta_{JA}$	300 4.0	mW mW/°C
*DC Forward Anode Current Derate Above 25°C	I_T	150 2.67	mA mA/°C
*DC Gate Current	I_G	± 50	mA
Repetitive Peak Forward Current 100 μs Pulse Width, 1% Duty Cycle *20 μs Pulse Width, 1% Duty Cycle	I_{TRM}	1.0 2.0	Amps
Non–Repetitive Peak Forward Current 10 μs Pulse Width	I_{TSM}	5.0	Amps
*Gate to Cathode Forward Voltage	V_{GKF}	40	Volts
*Gate to Cathode Reverse Voltage	V_{GKR}	–5.0	Volts
*Gate to Anode Reverse Voltage	V_{GAR}	40	Volts
*Anode to Cathode Voltage ⁽¹⁾	V_{AK}	± 40	Volts
Operating Junction Temperature Range	T_J	–50 to +100	°C
*Storage Temperature Range	T_{stg}	–55 to +150	°C

*Indicates JEDEC Registered Data

(1) Anode positive, $R_{GA} = 1000$ ohms
 Anode negative, $R_{GA} = \text{open}$



ON Semiconductor

<http://onsemi.com>

PUTs
40 VOLTS
300 mW



TO–92 (TO–226AA)
CASE 029
STYLE 16

PIN ASSIGNMENT	
1	Anode
2	Gate
3	Cathode

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 7 of this data sheet.

Preferred devices are recommended choices for future use and best overall value.

