imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SILICON PROGRAMMABLE UNIJUNCTION TRANSISTORS





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6027 and 2N6028 devices are silicon programmable unijunction transistors, manufactured in an epoxy molded package, designed for adjustable (programmable) characteristics such as Valley Current (I_V), Peak Current (I_P), and Intrinsic Standoff Ratio (η).

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: $(T_A=25^{\circ}C)$	SYMBOL		UNITS
Gate-Cathode Forward Voltage	VGKF	40	V
Gate-Cathode Reverse Voltage	VGKR	5.0	V
Gate-Anode Reverse Voltage	VGAR	40	V
Anode-Cathode Voltage	V _{AK}	40	V
Peak Non-Repetitive Forward Current (t=10µs)	ITSM	5.0	А
Peak Repetitive Forward Current (t=20µs, D.C.=1.0%)	ITRM	2.0	А
Peak Repetitive Forward Current (t=100µs, D.C.=1.0%)	ITRM	1.0	А
DC Forward Anode Current	Ι _Τ	150	mA
DC Gate Current	۱ _G	50	mA
Power Dissipation	PD	300	mW
Operating Junction Temperature	Тј	-50 to +100	°C
Storage Temperature	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

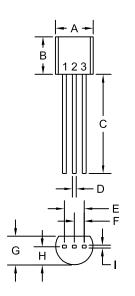
			<u>2N6027</u>		2N6028	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
IGAO	V _S =40V	-	10	-	10	nA
I _{GKS}	V _S =40V	-	50	-	50	nA
۱ _Р	V _S =10V, R _G =1.0MΩ	-	2.0	-	0.15	μA
۱ _Р	V_{S} =10V, R _G =10k Ω	-	5.0	-	1.0	μΑ
١ _V	V _S =10V, R _G =1.0MΩ	-	50	-	25	μΑ
١ _V	V_{S} =10V, R _G =10k Ω	70	-	25	-	μΑ
IV	V _S =10V, R _G =200Ω	1.5	-	1.0	-	mA
VT	V _S =10V, R _G =1.0MΩ	0.2	1.6	0.2	0.6	V
VT	V_{S} =10V, R _G =10k Ω	0.2	0.6	0.2	0.6	V
V _F	I _F =50mA	-	1.5	-	1.5	V
VO	V _B =20V, C _C =0.2µF	6.0	-	6.0	-	V
t _r	V _B =20V, C _C =0.2µF	-	80	-	80	ns

R2 (4-February 2014)



Semiconductor Corp.

SILICON PROGRAMMABLE UNIJUNCTION TRANSISTORS



TO-92 CASE - MECHANICAL OUTLINE

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.175	0.205	4.45	5.21		
В	0.170	0.210	4.32	5.33		
С	0.500	-	12.70	-		
D	0.016	0.022	0.41	0.56		
E	0.100		2.54			
F	0.050		1.27			
G	0.125	0.165	3.18	4.19		
Н	0.080	0.105	2.03	2.67		
	0.015		0.38			
TO-92 (REV: R1)						

LEAD CODE:

1) Anode 2) Gate

R1

3) Cathode

MARKING: FULL PART NUMBER

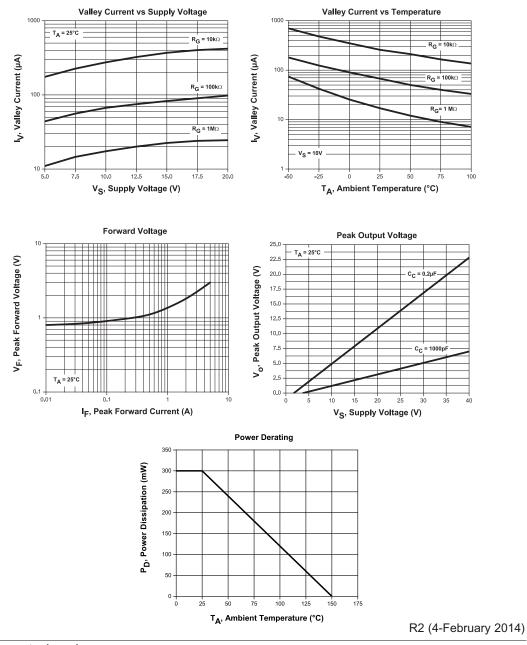
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2N6027 2N6028

SILICON PROGRAMMABLE UNIJUNCTION TRANSISTORS



TYPICAL ELECTRICAL CHARACTERISTICS

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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