

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!



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CMPP6027 CMPP6028

SURFACE MOUNT SILICON PROGRAMMABLE UNIJUNCTION TRANSISTORS



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPP6027 and CMPP6028 are silicon programmable unijunction transistors, manufactured in a surface mount SOT-23 package, designed for adjustable (programmable) characteristics such as, valley current (I_V), peak current (I_P), and intrinsic standoff ratio (η).

MARKING CODES: CMPP6027: P27

CMPP6028: P28



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Gate-Cathode Forward Voltage	V_{GKF}	40	V
Gate-Cathode Reverse Voltage	V_{GKR}	5.0	V
Gate-Anode Reverse Voltage	V_{GAR}	40	V
Anode-Cathode Voltage	V_{AK}	40	V
Peak Non-Repetitive Forward Current (t=10µs)	I _{TSM}	5.0	Α
Peak Repetitive Forward Current (t=20µs, D.C.=1.0%)	^I TRM	2.0	Α
Peak Repetitive Forward Current (t=100µs, D.C.=1.0%)	^I TRM	1.0	Α
DC Forward Anode Current	ΙΤ	150	mA
DC Gate Current	I_{G}	50	mA
Power Dissipation (Note 1)	P_{D}	167	mW
Storage Temperature	T _{stg}	-55 to +150	°C
Operating Junction Temperature	T_J^{T}	-50 to +100	°C
Thermal Resistance (Note 1)	$\Theta_{\sf JA}$	450	°C/W

Note 1: Mounted on 2 inch square FR-4 PCB with minimum copper pad area.

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

		CMPP6027	CMPP6028	
SYMBOL	TEST CONDITIONS	MIN MAX	MIN MAX	UNITS
I_{GAO}	V _S =40V	10	10	nA
I _{GKS}	V _S =40V	50	50	nA
lΡ	V_S =10V, R_G =1.0M Ω	2.0	0.15	μΑ
lΡ	V_S =10V, R_G =10k Ω	5.0	1.0	μΑ
lV	V_S =10V, R_G =1.0M Ω	50	25	μΑ
lV	V_S =10V, R_G =10k Ω	70	25	μΑ
lV	V_S =10V, R_G =200 Ω	1.5	1.0	mA
V_{T}	V_S =10V, R_G =1.0M Ω	0.2 1.6	0.2 0.6	V
V_{T}	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
V_{O}	$V_B=20V$, $C_C=0.2\mu F$	6.0	6.0	V
t _r	$V_B = 20V, C_C = 0.2 \mu F$	80	80	ns
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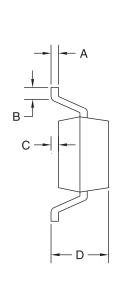
R4 (24-June 2015)

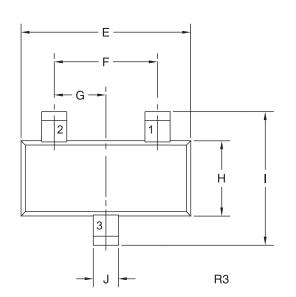
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SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode
- 3) Gate

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DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
Ī	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

R4 (24-June 2015)

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

- · Custom bar coding for shipments
- · Custom product packing

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

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

REQUESTING PRODUCT PLATING

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

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