CMPP6027 CMPP6028

SURFACE MOUNT SILICON PROGRAMMABLE UNIJUNCTION TRANSISTOR



SOT-23 CASE



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

NOTE: Reverse Lead Codes Available, Add "R" to the end of the Part #.

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)	ITSM	5.0	Α
Peak Repetitive Forward Current (t=20µs, D.C.=1.0%)	ITRM	2.0	Α
Peak Repetitive Forward Current (t=100µs, D.C.=1.0%)	ITRM	1.0	Α
DC Forward Anode Current	Ι _Τ	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	-50 to +100	°C
Thermal Resistance (Note 1)	$\Theta_{\sf JA}$	450	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ \, (T_{\mbox{\scriptsize A}} = 25 \mbox{°C unless otherwise noted})$

		CMP	<u>CMPP6027</u>		P6028	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I_{GAO}	V _S =40V		10		10	nA
l _{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
ly	V_S =10V, R_G =1.0M Ω		50		25	μΑ
ly	V_S =10V, R_G =10k Ω	70		25		μΑ
ly	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

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

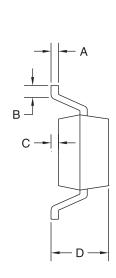
R3 (19-December 2012)

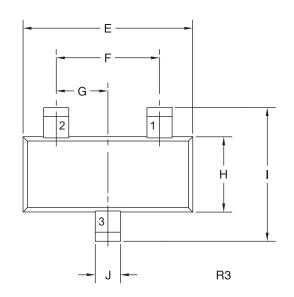
CMPP6027 CMPP6028

SURFACE MOUNT PROGRAMMABLE UNIJUNCTION SILICON TRANSISTOR



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

STANDARD *REVERSE
1) Cathode
2) Anode
2) Cathode
3) Gate
3) Gate

MARKING CODES: CMPP6027: P27 CMPP6028: P28

^{*} Reverse Lead Code Available, Add "R" to the end of the Part #.

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			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

R3 (19-December 2012)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Central Semiconductor manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H BC546/116 BC557/116 BSW67A NTE158 NTE187A NTE195A NTE2302 NTE2330 NTE63 C4460

2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA2126-E 2SB1204S-TL-E 2SD2150T100R SP000011176 FMMTA92QTA 2N2369ADCSM

2N5769 2SC2412KT146S 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E

US6T6TR NJL0281DG 732314D CMXT3906 TR CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR MCH6102-TL-E

FP204-TL-E NJL0302DG 2N3583 2SA1434-TB-E 2SC3143-4-TB-E 2SD1621S-TD-E NTE103 30A02MH-TL-E NSV40301MZ4T1G

NTE101 NTE13 NTE15