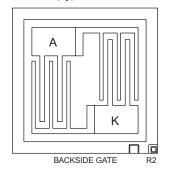


CP624-2N6028

Programmable Unijunction Transistor Die

The CP624-2N6028 is a silicon PUT designed for adjustable characteristics such as Valley Current (I_V), and Peak Current (I_P).



MECHANICAL SPECIFICATIONS:

Die Size	27.5 x 27.5 MILS
Die Thickness	9.45 MILS
Anode Bonding Pad Size	7.1 x 5.1 MILS
Cathode Bonding Pad Size	7.1 x 5.1 MILS
Top Side Metalization	AI – 20,000Å
Back Side Metalization	Au – 13,000Å
Scribe Alley Width	3.6 MILS
Wafer Diameter	3 INCHES
Gross Die Per Wafer	8,894

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%)	ITRM	2.0	Α
Peak Repetitive Forward Current (t=100µs, D.C.=1.0%)	ITRM	1.0	Α
DC Forward Anode Current	ΙΤ	150	mA
DC Gate Current	I_{G}	50	mA
Operating Junction Temperature	TJ	-50 to +100	°C
Storage Temperature	T _{sta}	-55 to +150	°C

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

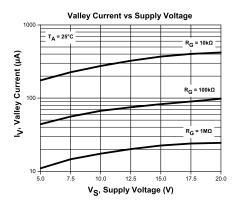
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{GAO}	V _S =40V		10	nA
I _{GKS}	V _S =40V		50	nA
lΡ	V_S =10V, R_G =1.0M Ω		0.15	μΑ
lΡ	V_S =10V, R_G =10k Ω		1.0	μΑ
lV	V_S =10V, R_G =1.0M Ω		25	μΑ
lV	V_S =10V, R_G =10k Ω	25		μΑ
lV	V_S =10V, R_G =200 Ω	1.0		mA
V_{T}	V_S =10V, R_G =1.0M Ω	0.2	0.6	V
V_{T}	V_S =10V, R_G =10k Ω	0.2	0.6	V
V_{F}	I _F =50mA		1.5	V
V_{O}	$V_B = 20V, C_C = 0.2 \mu F$	6.0		V
t _r	$V_B = 20V, C_C = 0.2 \mu F$		80	ns

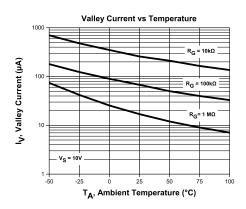
CP624-2N6028

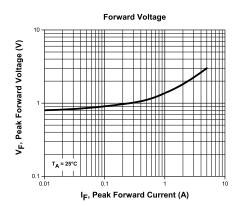
Typical Electrical Characteristics

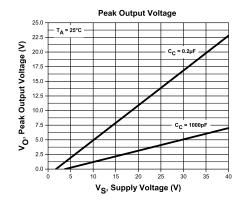


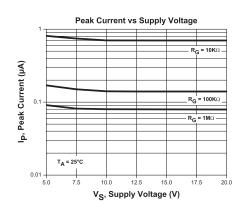
www.centralsemi.com

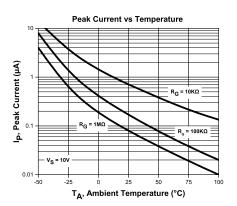








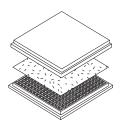




R0 (26-July 2016)

BARE DIE PACKING OPTIONS

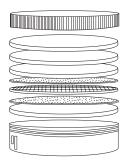




BARE DIE IN TRAY (WAFFLE) PACK

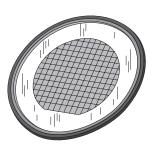
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

CM: Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes). (example: CP211-PART NUMBER-CM)



UNSAWN WAFER

WN: Full wafer, unsawn, 100% tested with reject die inked. (example: CP211-PART NUMBER-WN)



SAWN WAFER ON PLASTIC RING

WR: Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications: www.centralsemi.com/bdspecs

R2 (3-April 2017)

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

CONTACT US

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