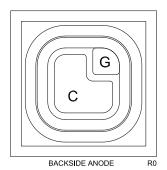


CPS053-2N2326

Silicon Controlled Rectifier Die 1.6 Amp, 200 Volt

The CPS053-2N2326 is a Silicon Controlled Rectifier designed for sensing circuit and control system applications.



MECHANICAL SPECIFICATIONS:

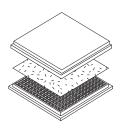
Die Size	53.2 x 53.2 MILS
Die Thickness	8.7 MILS
Gate Bonding Pad Size	7.9 x 7.9 MILS
Source Bonding Pad Size	20.1 x 10.2 MILS
Top Side Metalization	AI – 45,000Å
Back Side Metalization	Al/Mo/Ni/Ag – 32,000Å
Scribe Alley Width	1.96 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	3,884

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

MAXIMUM RA	ATINGS: $(T_{\Delta}=25^{\circ}C)$ unless otherwise	noted)		
	. //	SYMBOL		UNITS
Peak Repetitiv	ve Forward Voltage	v_{DRM}	200	V
Peak Repetitive Reverse Voltage		V_{RRM}	200	V
Peak Non-Repetitive Reverse Voltage		V_{RSM}	300	V
RMS On-State Current		I _{T(RMS)}	1.6	Α
Average On-State Current		I _{T(AV)}	1.0	Α
Peak One Cycle Surge Current (t=8.3ms)		ITSM	15	Α
Peak Gate Po	ower Dissipation	P_{GM}	100	mW
Average Gate	Power Dissipation	P _{G(AV)}	10	mW
Peak Gate Cu	ırrent	I _{GM}	100	mA
Peak Gate Voltage		V_{GM}	6.0	V
Operating Junction Temperature		T_J	-65 to +125	°C
Storage Temperature		T _{stg}	-65 to +150	°C
ELECTRICAL	CHARACTERISTICS: (T _A =25°C)			
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{DRM} , I _{RRM}	V_{DRM} , V_{RRM} =200V, R_{GK} =1.0k Ω		5.0	μA
^I GT	V_D =6.0V, R_L =100 Ω		200	μΑ
lΗ	V_D =6.0V, R_{GK} =1.0k Ω		2.0	mA
V_{GT}	V_D =6.0V, R_L =100 Ω		0.8	V
V_{TM}	I _{TM} =1.0A, tp=380μs		1.5	V

BARE DIE PACKING OPTIONS



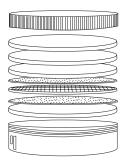


BARE DIE IN TRAY (WAFFLE) PACK

CT: Singulated die in tray (waffle) pack.

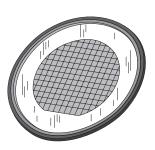
(example: CP211-PART NUMBER-CT)

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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