



# ADVISORY PRODUCT CHANGE NOTICE

Product Group: Vishay Siliconix/ February 25th, 2022 - APCN-SIL-5022022

## DG2002E Datasheet Changes

**DESCRIPTION OF CHANGE:** On resistance test limit changes on the analog switch channel to better represents the product characteristics. There is no design, BOM, or manufacture process change.

Switch max resistance limits at 4.5V, 2.2V and 1.8V V+ power conditions are updated as below:

Part Number		V+=4.5V, Vcom=3V, I <sub>no/nc</sub> =10mA		V+=2.2V, Vcom=1.0V, I <sub>no/nc</sub> =10mA		V+=1.8V, Vcom=1.0V, I <sub>no/nc</sub> =10mA		Units
		Current Limit	Updated Limit	Current Limit	Updated Limit	Current Limit	Updated Limit	
DG9411E	Room Temp	8	9	27	29.5	42	45	Ohm
	Full Temp	10	11	28	30.5	44	47	

**CLASSIFICATION OF CHANGE:** Datasheet

**REASON FOR CHANGE:** Updated limits more accurately present product resistance characteristics.

**EXPECTED INFLUENCE ON PERFORMANCE/QUALITY/RELIABILITY:** There will be no effect on performance, quality, or reliability.

**PRODUCT CATAGORY:** ICs

**PART NUMBERS AFFECTED:** DG2002EDL-T1-GE3

**VISHAY BRAND(s):** Vishay-Siliconix

**TIME SCHEDULE:** Immediately, Feb 25, 2022

**SAMPLE AVAILABILITY:** Samples available immediately

**QUALIFICATION DATA:** Additional data available upon request.

**This APCN is for notification purposes only. Your response is not required. If you have any questions, please contact your local Vishay Sales Office.**

**ISSUED BY:** Isabelle Ciacchella, Vishay Siliconix IC Product Marketing.

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# ADVISORY PRODUCT CHANGE NOTICE

Product Group: Vishay Siliconix/ February 25th, 2022 - APCN-SIL-5022022

## SIC461/2/3/4 Datasheet – Doc#65124

### Revision O – March 2021

<b>ELECTRICAL SPECIFICATIONS</b> ( $V_{IN} = V_{CIN} = 48\text{ V}$ , $V_{EN} = 5\text{ V}$ , $T_J = -40\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ , unless otherwise stated)						
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
<b>Power Supplies</b>						
$V_{DD}$ supply	$V_{DD}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	4.75	5	5.25	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.7	5	-	
$V_{DD}$ dropout	$V_{DD\_DROPOUT}$	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 1\text{ mA}$	-	70	-	mV
$V_{DD}$ UVLO threshold, rising	$V_{DD\_UVLO}$		4	4.25	4.5	V
$V_{DD}$ UVLO hysteresis	$V_{DD\_UVLO\_HYST}$		-	225	-	mV
Maximum $V_{DD}$ current	$I_{DD}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	3	-	-	mA
$V_{DRV}$ supply	$V_{DRV}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	5.1	5.3	5.55	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.8	5	5.2	
$V_{DRV}$ dropout	$V_{DRV\_DROPOUT}$	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 10\text{ mA}$	-	160	-	mV
Maximum $V_{DRV}$ current	$V_{DRV}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	50	-	-	mA
$V_{DRV}$ UVLO threshold, rising	$V_{DRV\_UVLO}$		4	4.25	4.5	V
$V_{DRV}$ UVLO hysteresis	$V_{DRV\_UVLO\_HYST}$		-	295	-	mV
Input current	$I_{VCIN}$	Non-switching, $V_{FB} > 0.8\text{ V}$	-	235	325	$\mu\text{A}$
Shutdown current	$I_{VCIN\_SHDN}$	$V_{FN} = 0\text{ V}$	-	4	8	

### Revision P – November 2021

<b>ELECTRICAL SPECIFICATIONS</b> ( $V_{IN} = V_{CIN} = 48\text{ V}$ , $V_{EN} = 5\text{ V}$ , $T_J = -40\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ , unless otherwise stated)						
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
<b>Power Supplies</b>						
$V_{DD}$ supply	$V_{DD}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	4.75	5	5.25	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.7	5	-	
$V_{DD}$ dropout	$V_{DD\_DROPOUT}$	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 1\text{ mA}$	-	70	-	mV
$V_{DD}$ UVLO threshold, rising	$V_{DD\_UVLO}$		4	4.25	4.5	V
$V_{DD}$ UVLO hysteresis	$V_{DD\_UVLO\_HYST}$		-	225	-	mV
Maximum $V_{DD}$ current	$I_{DD}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	3	-	-	mA
$V_{DRV}$ supply	$V_{DRV}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	4.75	5.3	5.55	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.8	5	5.2	
$V_{DRV}$ dropout	$V_{DRV\_DROPOUT}$	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 10\text{ mA}$	-	160	-	mV
Maximum $V_{DRV}$ current	$V_{DRV}$	$V_{IN} = V_{CIN} = 6\text{ V}$ to $60\text{ V}$	30	-	-	mA
$V_{DRV}$ UVLO threshold, rising	$V_{DRV\_UVLO}$		4	4.25	4.5	V
$V_{DRV}$ UVLO hysteresis	$V_{DRV\_UVLO\_HYST}$		-	295	-	mV
Input current	$I_{VCIN}$	Non-switching, $V_{FB} > 0.8\text{ V}$	-	235	325	$\mu\text{A}$
Shutdown current	$I_{VCIN\_SHDN}$	$V_{EN} = 0\text{ V}$	-	4	8	

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# ADVISORY PRODUCT CHANGE NOTICE

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## SIC471/2/3/4 Datasheet – Doc#75786

### Revision F – March 2021

<b>ELECTRICAL SPECIFICATIONS</b> ( $V_{IN} = V_{CIN} = 48\text{ V}$ , $V_{EN} = 5\text{ V}$ , $T_J = -40\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ , unless otherwise stated)						
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
<b>Power Supplies</b>						
V <sub>DD</sub> supply	V <sub>DD</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	4.75	5	5.25	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.7	5	-	
V <sub>DD</sub> dropout	V <sub>DD_DROPOUT</sub>	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 1\text{ mA}$	-	70	-	mV
V <sub>DD</sub> UVLO threshold, rising	V <sub>DD_UVLO</sub>		4	4.25	4.5	V
V <sub>DD</sub> UVLO hysteresis	V <sub>DD_UVLO_HYST</sub>		-	225	-	mV
Maximum V <sub>DD</sub> current	I <sub>DD</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	3	-	-	mA
V <sub>DRV</sub> supply	V <sub>DRV</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	5.1	5.3	5.55	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.8	5	5.2	
V <sub>DRV</sub> dropout	V <sub>DRV_DROPOUT</sub>	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 10\text{ mA}$	-	160	-	mV
Maximum V <sub>DRV</sub> current	V <sub>DRV</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	50	-	-	mA
V <sub>DRV</sub> UVLO threshold, rising	V <sub>DRV_UVLO</sub>		4	4.25	4.5	V
V <sub>DRV</sub> UVLO hysteresis	V <sub>DRV_UVLO_HYST</sub>		-	295	-	mV
Input current	I <sub>VCIN</sub>	Non-switching, $V_{FB} > 0.8\text{ V}$	-	235	325	μA
Shutdown current	I <sub>VCIN_SHDN</sub>	$V_{EN} = 0\text{ V}$	-	4	8	

### Revision G – November 2021

<b>ELECTRICAL SPECIFICATIONS</b> ( $V_{IN} = V_{CIN} = 48\text{ V}$ , $V_{EN} = 5\text{ V}$ , $T_J = -40\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ , unless otherwise stated)						
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
<b>Power Supplies</b>						
V <sub>DD</sub> supply	V <sub>DD</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	4.75	5	5.25	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.7	5	-	
V <sub>DD</sub> dropout	V <sub>DD_DROPOUT</sub>	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 1\text{ mA}$	-	70	-	mV
V <sub>DD</sub> UVLO threshold, rising	V <sub>DD_UVLO</sub>		4	4.25	4.5	V
V <sub>DD</sub> UVLO hysteresis	V <sub>DD_UVLO_HYST</sub>		-	225	-	mV
Maximum V <sub>DD</sub> current	I <sub>DD</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	3	-	-	mA
V <sub>DRV</sub> supply	V <sub>DRV</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	4.75	5.3	5.55	V
		$V_{IN} = V_{CIN} = 5\text{ V}$	4.8	5	5.2	
V <sub>DRV</sub> dropout	V <sub>DRV_DROPOUT</sub>	$V_{IN} = V_{CIN} = 5\text{ V}$ , $I_{VDD} = 10\text{ mA}$	-	160	-	mV
Maximum V <sub>DRV</sub> current	V <sub>DRV</sub>	$V_{IN} = V_{CIN} = 6\text{ V to }55\text{ V}$	30	-	-	mA
V <sub>DRV</sub> UVLO threshold, rising	V <sub>DRV_UVLO</sub>		4	4.25	4.5	V
V <sub>DRV</sub> UVLO hysteresis	V <sub>DRV_UVLO_HYST</sub>		-	295	-	mV
Input current	I <sub>VCIN</sub>	Non-switching, $V_{FB} > 0.8\text{ V}$	-	235	325	μA
Shutdown current	I <sub>VCIN_SHDN</sub>	$V_{EN} = 0\text{ V}$	-	4	8	

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