



**Solid State Devices, Inc.**

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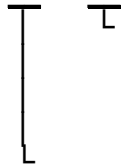
**SDR5712A2GW**

**16 VOLTS  
 GENERAL PURPOSE  
 SILICON RECTIFIER**

**Designer's Data Sheet**

**Part Number / Ordering Information <sup>1/</sup>**

**SDR5712A2**



**Screening <sup>2/</sup>**        = Not Screen  
 TX = TX Level  
 TXV = TXV Level  
 S = S Level

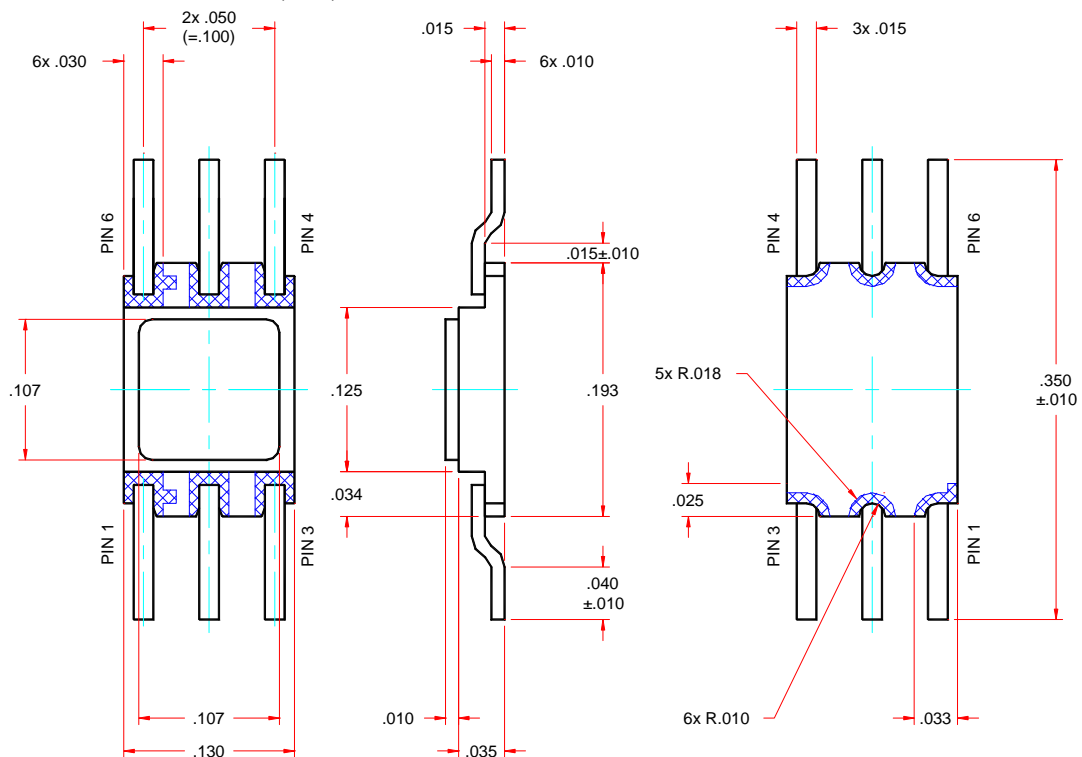
**Package <sup>3/</sup>** GW = Gullwing

**FEATURES:**

- General Purpose Use in Industrial Service
- Operating Temperature Range -65°C to 200°C
- Power Dissipation 250 mW

MAXIMUM RATINGS	Symbol	Value	Units
Working Peak Inverse Voltage	PIV	16	Volts
Power Dissipation @ T <sub>A</sub> = 25°C Derating Factor from T <sub>A</sub> = 25°C to 200°C	P <sub>D</sub>	250 1.43	mW mW/°C
Operating and Storage Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +200	°C

**PACKAGE OUTLINE: GULLWING (GW)**



**NOTE:** All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

**DATA SHEET #: RC0087C**

**DOC**



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**SDR5712A2GW**

<b>ELECTRICAL CHARACTERISTICS</b>		<b>Symbol</b>	<b>Max</b>	<b>Units</b>
<b>Maximum Forward Voltage Drop</b> <sup>5/</sup>	$I_{F1} = 1.0 \text{ mA}$	$V_{F1}$	0.41	<b>V</b>
	$I_{F2} = 35 \text{ mA}$	$V_{F2}$	1.00	
<b>Maximum Reverse Leakage Current</b> <sup>5/</sup>	$V_{R1} = 15 \text{ V}$	$I_{R1}$	100	<b>nA</b>
	$V_{R2} = 20 \text{ V}$	$I_{R2}$	10	<b>μA</b>
<b>Max Output Capacitance</b>	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	$C_J$	2	<b>pF</b>

**NOTES:**  
1/ For Ordering Information, Price, and Availability Contact Factory.  
2/ Screening per MIL-PRF-19500  
3/ For Package Outlines Contact Factory.  
4/ Unless Otherwise Specified, All Electrical Characteristics @ 25°C.  
5/ Pulse Test: Pulse Width = 300μsec, Duty Cycle = 2%

**Available Part Numbers:**  
**SDR5712A2GW**

<b>PIN ASSIGNMENT (Standard)</b>						
<b>Package</b>	<b>Pin 1</b>	<b>Pin 2</b>	<b>Pin 3</b>	<b>Pin 4</b>	<b>Pin 5</b>	<b>Pin 6</b>
<b>Gullwing</b>	C1	--	A1	C2	--	A2