

**Solid State Devices, Inc.**

14701 Firestone Blvd * La Mirada, CA 90638
 Phone: (562) 404-4474 * Fax: (562) 404-1773
 ssdi@ssdi-power.com * www.ssdi-power.com

DESIGNER'S DATA SHEET**Part Number / Ordering Information ^{1/}****SFT4261****GW****Screening ^{2/}**

— = Not

Screened

TX = TX

Level

TXV = TXV

Package

GW = Gullwing

— = **Dual Transistor**

"A" = Matched Pair



SFT4261GW

SFT4261AGW

Dual Microminiature Package

-30 mA, -15 Volts

Dual PNP Transistor

FEATURES:

- High Speed Switching, Dual Transistor
- Matched Pair (H_{FE1} , $V_{CE(SAT)1}$, V_{BE1}) Transistor (SFT4261AGW)
- Low Saturation Voltage
- Radiation Tolerant
- Hermetically Sealed, Surface Mount Package reduces board space for multiple devices
- TX, TXV, and S-Level Screening Available

Maximum Ratings ^{5/}

Maximum Ratings ^{5/}	Symbol	Value	Unit
Collector – Base Voltage	V_{CBO}	-15	V
Collector – Emitter Voltage	V_{CEO}	-15	V
Emitter – Base Voltage	V_{EBO}	-4.5	V
Continuous Collector Current	I_C	-30	mA
Total Device Dissipation	P_D	200	mW
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +200	°C
Thermal Resistance, Junction to Case	$R_{\theta JC}$	860	°C/W

Notes:

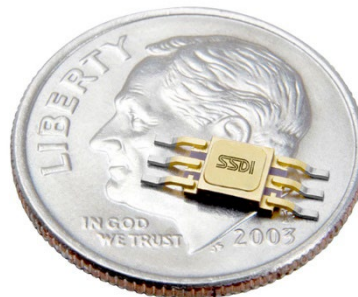
^{1/} For ordering information, price, operating curves, and availability - contact factory.

^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.

^{3/} Unless otherwise specified, maximum ratings / electrical characteristics at 25°C.

^{4/} Pulsed per MIL-STD-750.

^{5/} Per Transistor.

Gullwing (GW)

**Dime used for size reference*

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

DATA SHEET #: TR0155A

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SFT4261GW SFT4261AGW

Electrical Characteristics ^{3/}		Symbol	Min	Max	Unit
Collector – Emitter Breakdown Voltage ^{4/}	$I_C = -10 \text{ mA}$	BV_{CEO}	-15	—	V
Collector – Base Cutoff Current	$V_{CB} = -15 \text{ V}$	I_{CBO}	—	-10	μA
Emitter – Base Cutoff Current	$V_{EB} = -4.5 \text{ V}$	I_{EBO}	—	-10	μA
Collector – Emitter Cutoff Current	$V_{CE} = -10 \text{ V}, V_{BE} = -0.4 \text{ V}$	I_{CEX}	—	-50	nA
	$V_{CE} = -10 \text{ V}, V_{BE} = -2.0 \text{ V}$		—	-5	nA
	$V_{CE} = -10 \text{ V}, V_{BE} = -2.0 \text{ V}, 150\text{C}$		—	-5	μA
Forward Current Transfer Ratio	$I_C = -1.0 \text{ mA}, V_{CE} = -1.0 \text{ V}$	h_{FE}	25	—	—
	$I_C = -10 \text{ mA}, V_{CE} = -1.0 \text{ V}$		30	150	
	$I_C = -30 \text{ mA}, V_{CE} = -1.0 \text{ V}$		20	—	
	$I_C = -10 \text{ mA}, V_{CE} = -1.0 \text{ V}, -55\text{C}$		15	—	
Collector – Emitter Saturation Voltage ^{4/}	$I_C = -1.0 \text{ mA}, I_B = -0.1 \text{ mA}$	$V_{CE(SAT)}$	—	-0.15	V
	$I_C = -10 \text{ mA}, I_B = -1.0 \text{ mA}$		—	-0.35	
Base – Emitter Saturation Voltage ^{4/} (Non-Saturated)	$V_{CE} = -1.0 \text{ V}, I_C = -1.0 \text{ mA}$	V_{BE}	—	-0.8	V
	$V_{CE} = -1.0 \text{ V}, I_C = -10 \text{ mA}$		—	-1.0	
Magnitude of Small-Signal Forward Current Transfer Ratio	$I_C = -5 \text{ mA}, V_{CE} = -4.0 \text{ V}, f = 100 \text{ MHz}$	$ h_{FE} $	10	—	—
	$I_C = -10 \text{ mA}, V_{CE} = -10 \text{ V}, f = 100 \text{ MHz}$		10	—	—
Output Capacitance	$V_{CB} = -4 \text{ V}, I_E = 0, 100 \text{ kHz} \leq f \leq 1 \text{ MHz}$	C_{OBO}	—	2.5	pF
Input Capacitance	$V_{CB} = -0.5 \text{ V}, I_C = 0, 100 \text{ kHz} \leq f \leq 1 \text{ MHz}$	C_{IBO}	—	2.5	pF
Turn-On Time	$V_{CC} = -17 \text{ V}, I_C = -10 \text{ mA}$	t_{ON}	—	2.5	ns
Turn-Off Time	$V_{CC} = -17 \text{ V}, I_C = -10 \text{ mA}$	t_{OFF}	—	3.5	
Matching “a” = Transistor 1, “b” = Transistor 2	SFT4261AGW only				
		$ h_{FE2a}/h_{FE2b} $	0.9	1.1	-
		$ V_{CE(SAT)1a}-V_{CE(SAT)1b} $	-	25	mV
		$ V_{BE1a}-V_{BE1b} $	-	25	mV

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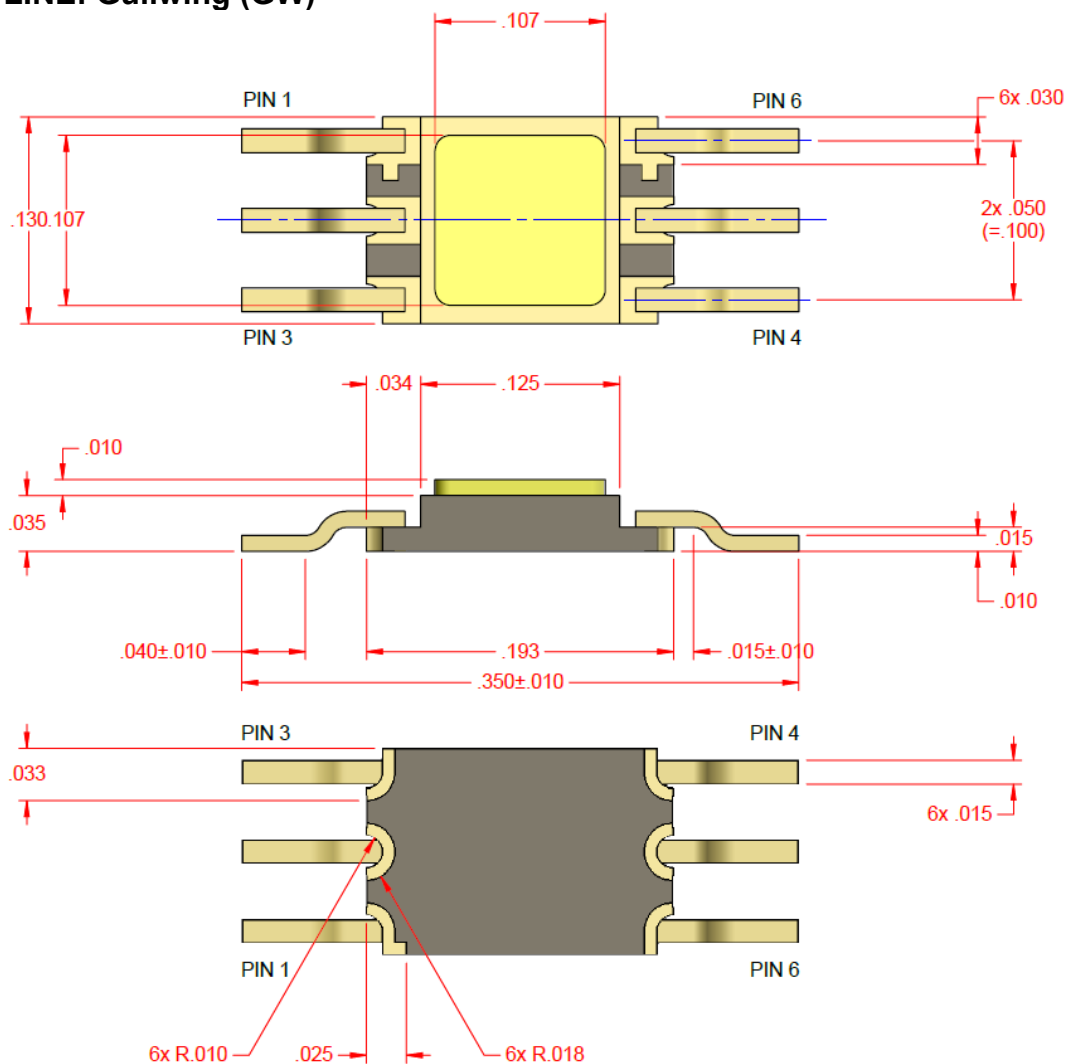


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SFT4261A2GW

CASE OUTLINE: Gullwing (GW)



PIN ASSIGNMENT

Package	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
GW	Collector 1	Base 1	Emitter 1	Collector 2	Base 2	Emitter 2

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