



Solid State Devices, Inc.

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DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

SFT2907A2

\square Screening ^{2/} $\overline{\quad}$ = Commercial
 TX = TX Level
 TXV = TXV Level
 S = S Level
 Package GW = Gullwing

**SFT2907A2
Series**

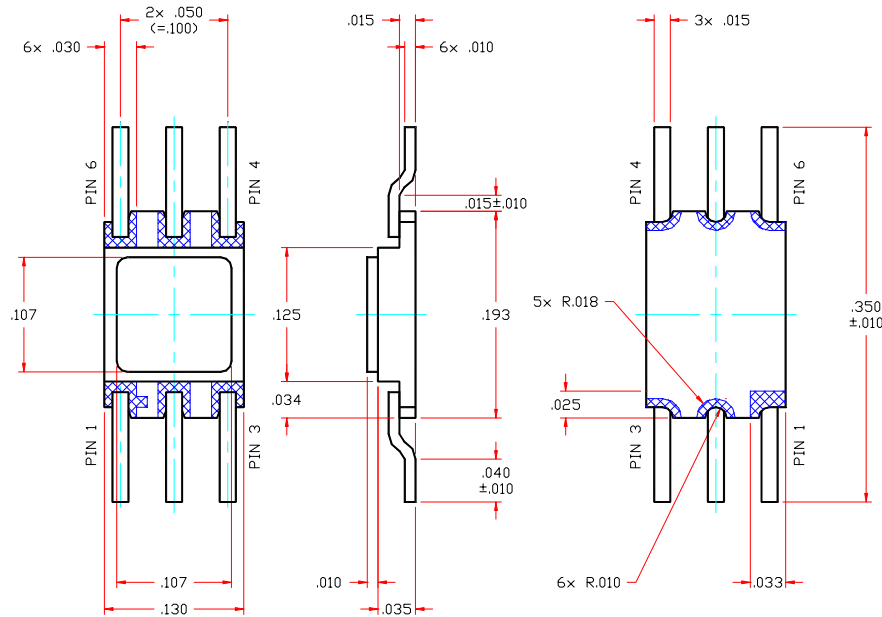
**Dual Microminiature Package
600 mA 60 Volts
Dual PNP Transistor**

Features:

- High Speed Switching Transistor
- Multiple Devices Reduce Board Space
- High Power Dissipation: Up to 600 mW
- Replacement for 2N2907AU
- TX, TXV, S-Level Screening Available
- NPN Complimentary Parts Available (SFT2222A2)

Maximum Ratings	Symbol	Value	Units
Collector – Emitter Voltage	V_{CEO}	60	Volts
Collector – Base Voltage	V_{CBO}	60	Volts
Emitter – Base Voltage	V_{EBO}	5	Volts
Continuous Collector Current	I_C	600	mA
Power Dissipation @ $T_A = 25^\circ C$	P_D	500 660	mW
Operating & Storage Temperature	$T_{OP} \& T_{stg}$	-65 to +200	$^\circ C$
Maximum Thermal Resistance (Junction to PCB)	$R_{\theta J-PCB}$	245	$^\circ C/W$

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 #: TR0031D

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**SFT2907A2
 Series**

Electrical Characteristic ^{4/}		Symbol	Min	Max	Units
Collector – Emitter Sustaining Voltage	$I_C = 10 \text{ mA}$	BV_{CEO}	60	—	Volts
Collector Cutoff Current	$V_{CE} = 30 \text{ V}$	I_{CES}	—	50	nA
Collector Cutoff Current	$V_{CB} = 50 \text{ V}$ $V_{CB} = 60 \text{ V}$ $V_{CB} = 50 \text{ V}, T_A = 150 \text{ }^\circ\text{C}$	I_{CBO}	—	10 10 10	nA μA μA
Emitter Cutoff Current	$V_{EB} = 4.0 \text{ V}$ $V_{EB} = 5.0 \text{ V}$	I_{EBO}	—	50 10	nA μA
DC Forward Current Transfer Ratio *	$V_{CE} = 10\text{V}, I_C = 0.1 \text{ mA}$ $V_{CE} = 10\text{V}, I_C = 1.0 \text{ mA}$ $V_{CE} = 10\text{V}, I_C = 10 \text{ mA}$ $V_{CE} = 10\text{V}, I_C = 150 \text{ mA}$ $V_{CE} = 10\text{V}, I_C = 500 \text{ mA}$ $V_{CE} = 10\text{V}, I_C = 10 \text{ mA}, T_A = -55^\circ\text{C}$	H_{FE}	75 100 100 100 50 50	— 450 — 300 — —	
Collector – Emitter Saturation Voltage *	$I_C = 150\text{mA}, I_B = 15\text{mA}$ $I_C = 500\text{mA}, I_B = 50\text{mA}$	$V_{CE(Sat)}$	— —	0.4 1.6	Volts
Base – Emitter Saturation Voltage *	$I_C = 150\text{mA}, I_B = 15\text{mA}$ $I_C = 500\text{mA}, I_B = 50\text{mA}$	$V_{BE(Sat)}$	0.6 —	1.3 2.6	Volts
Frequency Transition (Small Signal Current Gain) @ $f = 100 \text{ MHz}$	$V_{CE} = 20\text{V}, I_C = 20\text{mA}$	f_T	200	—	MHz
Switching Times	$V_{cc} = 30 \text{ V}, I_C = 150 \text{ mA}$ $I_{B1}=I_{B2}=15\text{mA}, V_{BE(off)} = 3\text{V}$	t_{on} t_{off}	— —	45 300	ns
Output Capacitance	$V_{CE} = 10\text{V}, f = 1\text{MHz}$	c_{ob}	—	8.0	pF
Input Capacitance	$V_{CE} = 2.0\text{V}, f = 1\text{MHz}$	c_{ib}	—	30	pF

NOTES:

- * Pulse Test: Pulse Width = 300 μsec , Duty Cycle = 2%
- 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.

Available Part Numbers:
SFT2907A2GW

PIN ASSIGNMENT						
Package	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
GW	Collector1	Base1	Emitter1	Collector2	Base2	Emitter2

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