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

SFT2907A2
Series

Dual Microminiature Package
600 mA 60 Volts
Dual PNP Transistor

DESIGNER'S DATA SHEET

Part Number / Ordering Information [1/]

SFT2907A2

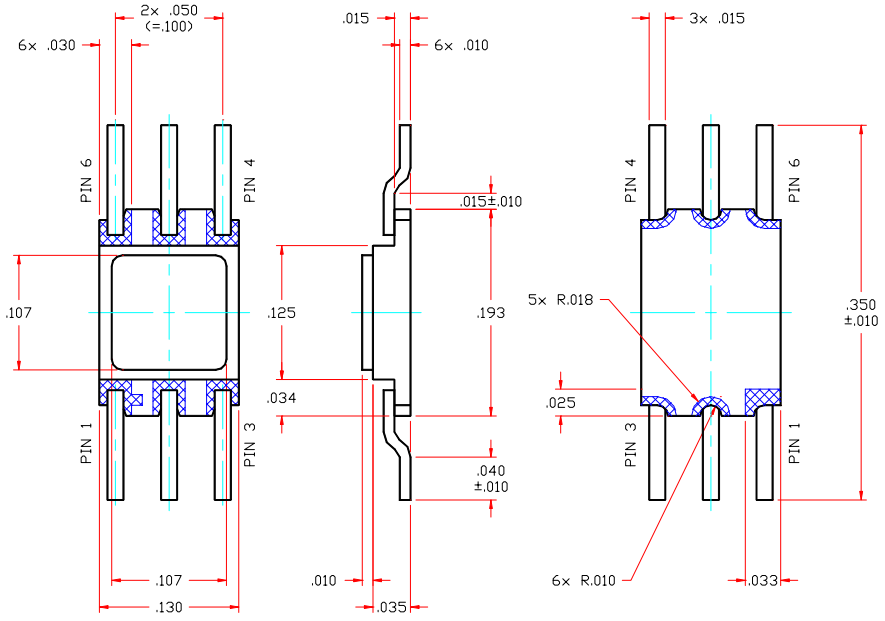
Screening [2/] __ = Commercial
TX = TX Level
TXV = TXV Level
S = S Level

Package GW = Gullwing

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 = 25ºC	Per Device Total	P_D	500 660	**mW**
Operating & Storage Temperature		T_{OP} & T_{stg}	-65 to +200	**ºC**
Maximum Thermal Resistance (Junction to PCB)		$R_{\theta J\text{-}PCB}$	245	**ºC/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	DOC

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SFT2907A2 Series

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

NOTES:

* Pulse Test: Pulse Width = 300µsec, 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 @25ºC.

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