



SOLID STATE DEVICES, INC.

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

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DESIGNER'S DATA SHEET

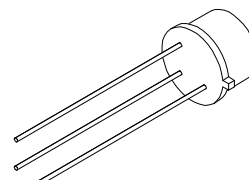
FEATURES:

- Radiation Tolerant
- Fast Switching
- High Frequency
- Low Saturation Voltage
- 200°C Operating, Gold Eutectic Die Attach
- Complementary use with SFT 5333

SFT4300

**2 AMP
150 VOLTS
NPN TRANSISTOR**

TO-5



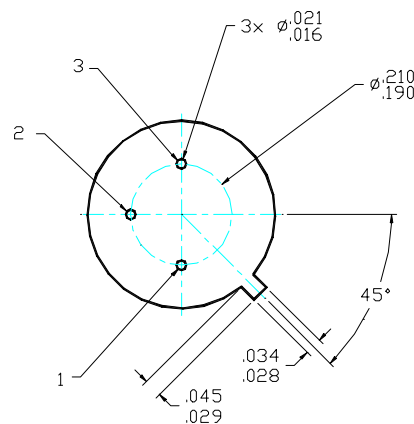
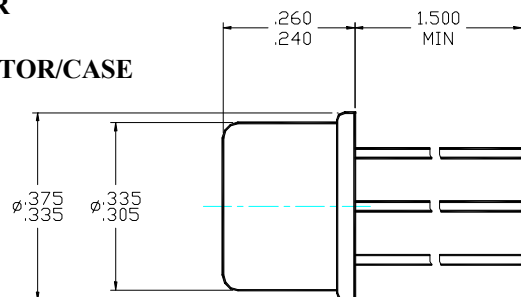
MAXIMUM RATINGS	Symbol	Value	Unit
Collector - Emitter Voltage	V_{CEO}	80	Volts
Collector - Base Voltage	V_{CBO}	150	Volts
Emitter - Base Voltage	V_{EBO}	8	Volts
Collector Current	I_C	2	Amps
Base Current Current	I_B	1	Amps
Total Device Dissipation $T_C = 100^\circ\text{C}$ Derate above $T_C = 100^\circ\text{C}$	P_D	6.6 66	Watts mW/°C
Operating and Storage Temperature	$T_J \text{ \& } T_{STG}$	-65 to +200	°C
Thermal Resistance	R_{qJC}	15.2	°C/W

PACKAGE OUTLINE: TO-5

PIN 1: EMITTER

PIN 2: BASE

PIN 3: COLLECTOR/CASE



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

DATA SHEET #: XN0029D

SFT4300



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ELECTRICAL CHARACTERISTICS ^{1/}		SYMBOL	MIN	MAX	UNIT
Collector-Emitter Breakdown Voltage (I _C = 30 mA _{dc})		BV _{CEO}	80	-	Volts
Collector-Base Breakdown Voltage (I _C = 200 μA _{dc})		BV _{CBO}	150	-	Volts
Emitter-Base Breakdown Voltage (I _E = 200 μA _{dc})		BV _{EBO}	8	-	Volts
Collector Cutoff Current (V _{CB} = 90 V _{dc} , T _C =25°C) 					

For thermal derating curves and other characteristic curves please contact SSDI Marketing Department.

NOTES:

* Pulse Test: Pulse Width = 300 μ s, Duty Cycle = 2%

1/ $T_j = 25^\circ\text{C}$ unless otherwise specified