2SA1734T2G

Preferred Device

PNP Silicon Transistor

The device is housed in the SOT-89 package, which is designed for medium power surface mount applications.

- High Current: 1.2 Amp
- Available in 7 inch/1000 unit Tape and Reel
- Device Marking: SA

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	-30	Vdc
Collector-Base Voltage	V _{CBO}	-40	Vdc
Emitter-Base Voltage	V _{EBO}	-6	Vdc
Collector Current	۱ _C	-1.2	Adc
Total Power Dissipation @ $T_A = 25^{\circ}C$ Derate above $25^{\circ}C$	P _D (Note 1) (Note 2)	1.56 13 0.67 5.0	Watts mW/°C Watts mW/°C
Operating and Storage Temperature Range	T _J , T _{stg}	-65 to 150	°C

THERMAL CHARACTERISTICS

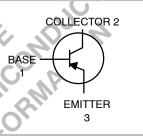
Characteristic	Symbol	Max	Unit
Thermal Resistance Junction-to-Ambient (surface mounted)	R _{0JA} (Note 1) (Note 2)	60 190	°C/W
Maximum Temperature for Soldering Purposes Time in Solder Bath	ΤL	260 10	°C Sec
1. FR-4 @ 1.0 X 1.0 inch Pad 2.0 oz. Cu 2. FR-4 @ Minimum Pad	PCB	AFSEN	



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MEDIUM POWER PNP SILICON HIGH CURRENT TRANSISTOR SURFACE MOUNT



MARKING DIAGRAM

Y = Year Code

CASE 1213 STYLE 2

з

SOT-89

M = Month Code

SA

SA = Device Code

ORDERING INFORMATION

Device	Package	Shipping	
2SA1734T2G	SOT-89	1000/Tape & Reel	

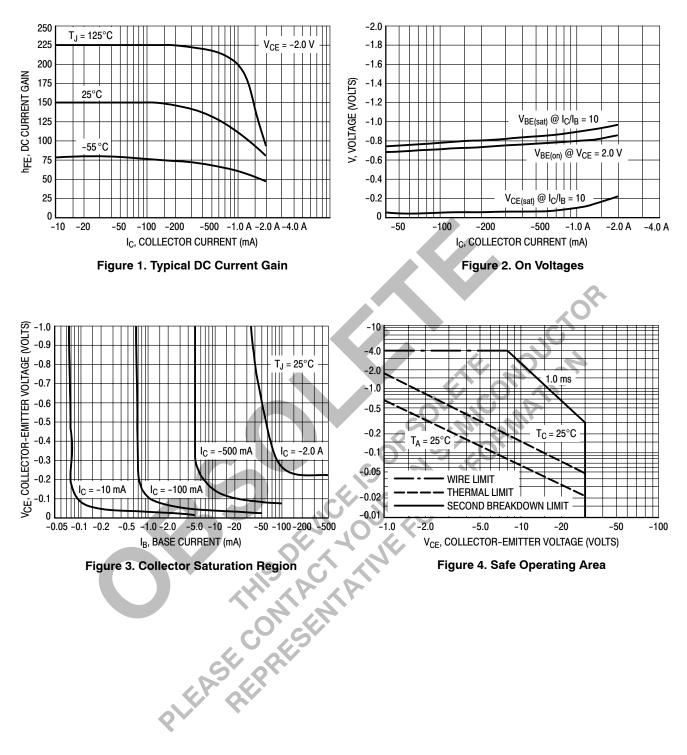
Preferred devices are recommended choices for future use and best overall value.

2SA1734T2G

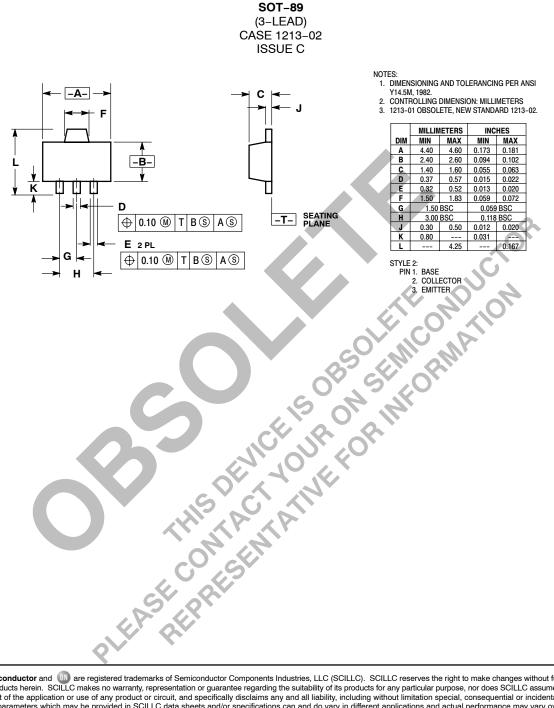
ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Characteristic		Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS						
Collector – Emitter Breakdown Voltage (Note 3) $(I_{C} = -10 \text{ mAdc}, I_{B} = 0)$	N	V _{(BR)CEO}	-30	-	_	Vdc
Collector Cutoff Current ($V_{CB} = -40$ Vdc, $I_E = 0$)		I _{CBO}	-	-	-0.1	μAdc
Emitter Cutoff Current ($V_{EB} = -6.0 \text{ V}, I_C = 0$)		I _{EBO}	_	-	-0.1	μAdc
ON CHARACTERISTICS (Note 3)						
DC Current Gain (I _C = –100 mA, V _{CE} = –2.0 V) (I _C = –1.0 A, V _{CE} = –2.0 V)		h _{FE}	120 40	-	400 _	-
Collector – Emitter Saturation Voltage ($I_C = -700$ mA, $I_B = -35$ mA)		V _{CE(sat)}	-	-	-0.5	Vdc
Base – Emitter Saturation Voltage (I _C = –700 mA, I _B :	= –35 mA)	V _{BE(sat)}	-	_	-1.2	Vdc
SMALL-SIGNAL CHARACTERISTICS					9	
Current-Gain – Bandwidth Product (Note 4) ($I_C = -100$ mAdc, $V_{CE} = -2.0$ Vdc, f = 100 MHz)		fT	-	100	-	MHz
Collector Output Capacitance $(V_{CB} = -10 \text{ Vdc}, I_E = 0 \text{ mAdc}, f = 1.0 \text{ MHz})$		C _{OB}		16	-	pF
Current – Gain – Bandwidth Product (Note 4) ($I_C = -100 \text{ mAdc}$, $V_{CE} = -2.0 \text{ Vdc}$, $f = 100 \text{ MHz}$) Collector Output Capacitance ($V_{CB} = -10 \text{ Vdc}$, $I_E = 0 \text{ mAdc}$, $f = 1.0 \text{ MHz}$) 3. Pulse Test: Pulse Width $\leq 300 \mu$ s, Duty Cycle = 2.0 4. f_T is defined as the frequency at which $ h_{fe} $ extraption (T_T is defined as the frequency	DENICE IS OF	OR P	AFO'			

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PACKAGE DIMENSIONS



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