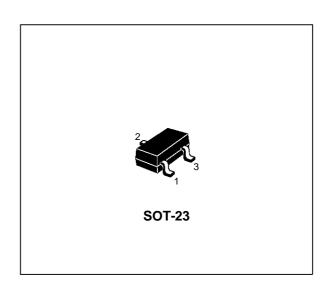


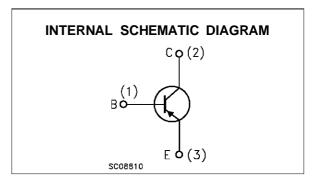
SOA56

SMALL SIGNAL PNP TRANSISTOR

Type	Marking	
SOA56	2GT	

- SILICON EPITAXIAL PLANAR PNP TRANSISTORS
- MINIATURE PLASTIC PACKAGE FOR APPLICATION IN SURFACE MOUNTING CIRCUITS
- MEDIUM CURRENT AF AMPLIFICATION
- NPN COMPLEMENTS IS SOA06





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage (I _E = 0)	-80	V
V _{CEO}	Collector-Emitter Voltage (I _B = 0)	-80	V
V _{EBO}	Emitter-Base Voltage (I _C = 0)	-4	V
Ic	Collector Current	-0.5	Α
P _{tot}	Total Dissipation at T _c = 25 °C	350	mW
T _{stg}	Storage Temperature	-65 to 150	°C
Tj	Max. Operating Junction Temperature	150	°C

March 1996 1/4

THERMAL DATA

Mounted on a ceramic substrate area = 15 x 15 x 0.5 mm

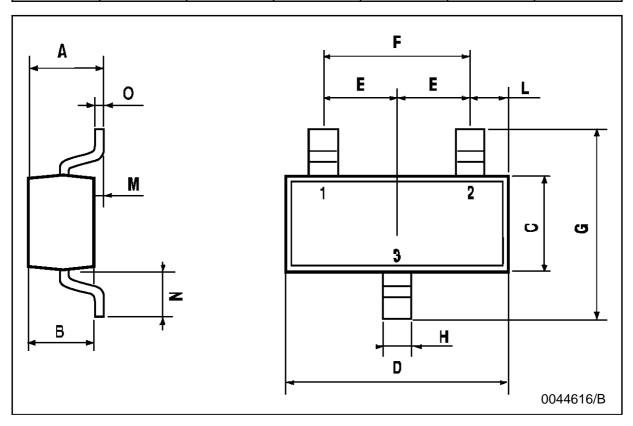
ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{CBO}	Collector Cut-off Current (I _E = 0)	V _{CB} = -80 V			-100	nA
I _{CEO}	Collector Cut-off Current (I _E = 0)	V _{CE} = -60 V			-100	nA
V _{(BR)CEO*}	Collector-Emitter Breakdown Voltage (I _B = 0)	I _C = -1 mA	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _C = 0)	I _E = -100 μA	-4			V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = -100 mA I _B = -10 mA			-0.25	V
V _{BE(on)} *	Base-Emitter On Voltage	I _C = -100 mA V _{CE} = -1 V			-1.2	V
h _{FE} *	DC Current Gain	I _C = -10 mA	50 50			
f⊤	Transition Frequency	$I_C = -10 \text{ mA } V_{CE} = -2 \text{ V } f = 100 \text{ MHz}$	50			MHz

^{*} Pulsed: Pulse duration = 300 μs, duty cycle ≤ 2 %

SOT-23 MECHANICAL DATA

DIM.	mm		mils			
DIWI.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
Α	0.85		1.1	33.4		43.3
В	0.65		0.95	25.6		37.4
С	1.20		1.4	47.2		55.1
D	2.80		3	110.2		118
Е	0.95		1.05	37.4		41.3
F	1.9		2.05	74.8		80.7
G	2.1		2.5	82.6		98.4
Н	0.38		0.48	14.9		18.8
L	0.3		0.6	11.8		23.6
М	0		0.1	0		3.9
N	0.3		0.65	11.8		25.6
0	0.09		0.17	3.5		6.7



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