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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SMALL SIGNAL PNP TRANSISTOR

PRELIMINARY DATA

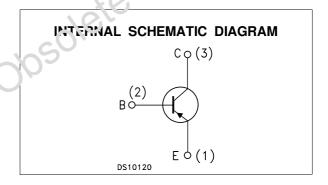
Туре	Marking	
SO692	P39	

- SILICON EPITAXIAL PLANAR PNP HIGH VOLTAGE TRANSISTOR
- MINIATURE SOT-23 PLASTIC PACKAGE FOR SURFACE MOUNTING CIRCUITS
- TAPE AND REEL PACKING
- THE NPN COMPLEMENTARY TYPE IS SO642

APPLICATIONS

- VIDEO AMPLIFIER CIRCUITS (RGB CATHODE CURRENT CONTROL)
- TELEPHONE WIRELINE INTERFACE (HOOK SWITCHES, DIALER CIRCUITS)





ABSOLUTE MAXIMUM RATINGS

symbol	Parameter	Parameter Value	
V _{CBO}	Collector-Base Voltage (I _E = 0)	-300	V
V _{CEO}	Collector-Emitter Voltage (I _B = 0) -300		V
V_{EBO}	Emitter-Base Voltage (I _C = 0)	-5	V
Ic	Collector Current	-0.1	А
I _{CM}	Collector Peak Current	-0.3	Α
P _{tot}	Total Dissipation at T _C = 25 °C	310	mW
T _{stg}	Storage Temperature	-65 to 150	°C
Tj	Max. Operating Junction Temperature	150	°C

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THERMAL DATA

R _{thj-amb} •	Thermal Resistance Junction-Ambient	Max	403.2	°C/W	
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Device mounted on a PCB area of 1 cm²

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

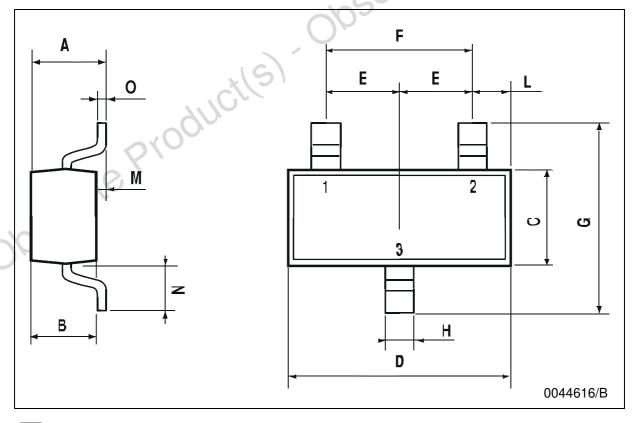
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	nA
Breakdown Voltage (I _E = 0) $V_{(BR)CEO^*} Collector-Emitter Breakdown Voltage (IB = 0)$ $I_{C} = -1 \text{ mA}$ $V_{(BR)EBO} Emitter-Base Breakdown Voltage (IC = 0) V_{CE(sat)^*} Collector-Emitter Saturation Voltage V_{BE(sat)^*} Base-Emitter Saturation Voltage V_{BE(sat)^*} DC Current Gain I_{C} = -20 \text{ mA} I_{B} = -2 \text{ mA} I_{C} = -20 \text{ mA} I_{B} = -2 \text{ mA} I_{C} = -20 \text{ mA} I_{B} = -2 \text{ mA} I_{C} = -10 \text{ mA} V_{CE} = -10 \text{ V} I_{C} = -10 \text{ mA} V_{CE} = -10 \text{ V} I_{C} = -10 \text{ mA} V_{CE} = -10 \text{ V} I_{C} = -30 \text{ mA} V_{CE} = -10 \text{ V} I_{C} = -30 \text{ mA} V_{CE} = -10 \text{ V} I_{C} = -30 \text{ mA} V_{CE} = -20 \text{ V} f = 50 \text{ MHz} I_{C} = -10 \text{ mA} V_{CE} = -20 \text{ V} f = 1 \text{ MHz} I_{C} = -20 \text{ V} f = 1 \text{ MHz}$	
Breakdown Voltage (I _B = 0) $V_{(BR)EBO} = \begin{bmatrix} Emitter-Base \\ Breakdown Voltage \\ (I_{C} = 0) \end{bmatrix} I_{E} = -100 \ \mu A $ $V_{CE(sat)}* Collector-Emitter \\ Saturation Voltage \end{bmatrix} I_{C} = -20 \ mA I_{B} = -2 \ mA $ $V_{BE(sat)}* Base-Emitter \\ Saturation Voltage \end{bmatrix} I_{C} = -20 \ mA I_{B} = -2 \ mA $ $V_{E}(sat)* DC Current Gain I_{C} = -10 \ mA V_{CE} = -10 \ V 40 I_{C} = -30 \ mA V_{CE} = -10 \ V 25 V_{CE} = -20 \ V F = 50 \ MHz $ $C_{CBO} Collector-Base I_{C} = 0 V_{CB} = -20 \ V f = 1 \ MHz 6 V_{CE} = -20 \ V f = 1 \ MHz 6 V_{CE} = -20 \ V f = 1 \ MHz 6 V_{CE} = -20 \ V_{CE} = -20 \ V f = 1 \ MHz 6 V_{CE} = -20 \ $	V
Breakdown Voltage $(I_C=0)$ $I_C=-20 \text{ mA}$ $I_B=-2 \text{ mA}$ $I_C=-20 \text{ mA}$ $I_B=-2 \text{ mA}$ $I_C=-20 m$	V
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	V
Saturation Voltage $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	٧
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	V
C_{CBO} Collector-Base Capacitance $I_{C} = 0$ $V_{CB} = -20 \text{ V}$ $f = 1 \text{MHz}$ 6Pulsed: Pulse duration = 300 us , duty cycle $\leq 2 \text{ %}$	
Capacitance Pulsed: Pulse duration = 300 us, duty cycle ≤ 2 %	MHz
Pulsed: Pulse duration = 300 μs, duty cycle ≤ 2 %	pF
ie Pros	

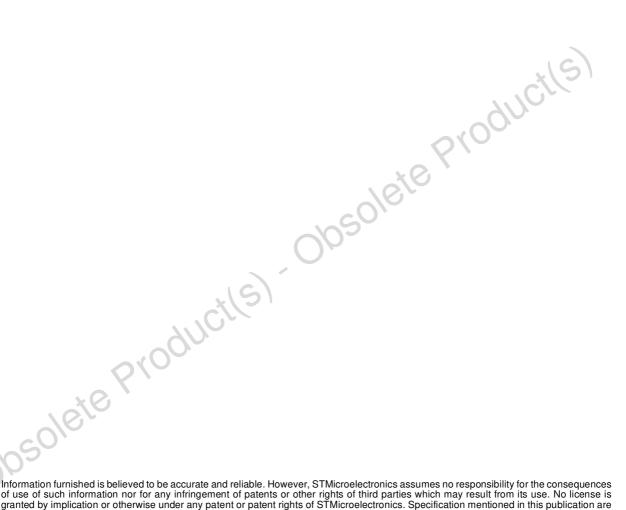
^{*} Pulsed: Pulse duration = 300 μs, duty cycle ≤ 2 %

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SOT-23 MECHANICAL DATA

DIM.	mm		mils			
D.IWI.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
А	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	000	23.6
М	0		0.1	0	510	3.9
N	0.3		0.65	11.8		25.6
0	0.09		0.17	3.5		6.7





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