

SMALL SIGNAL PNP TRANSISTORS

PRELIMINARY DATA

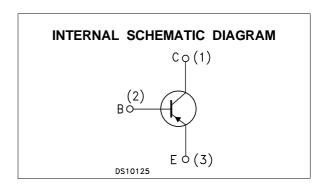
Type	Marking
BC327-25	BC327-25
BC327-40	BC327-40

- SILICON EPITAXIAL PLANAR PNP TRANSISTORS
- TO-92 PACKAGE SUITABLE FOR THROUGH-HOLE PCB ASSEMBLY
- THE NPN COMPLEMENTARY TYPES ARE BC337-25 AND BC337-40 RESPECTIVELY

APPLICATIONS

- WELL SUITABLE FOR TV AND HOME APPLIANCE EQUIPMENT
- SMALL LOAD SWITCH TRANSISTORS WITH HIGH GAIN AND LOW SATURATION VOLTAGE





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage (I _E = 0)	-50	V
Vceo	Collector-Emitter Voltage (I _B = 0)	-45	V
V_{EBO}	Emitter-Base Voltage (I _C = 0)	-5	V
Ic	Collector Current	-0.5	А
I _{CM}	Collector Peak Current	-1	А
P _{tot}	Total Dissipation at T _C = 25 °C	625	mW
T _{stg}	Storage Temperature	-65 to 150	°C
T _j Max. Operating Junction Temperature		150	°C

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THERMAL DATA

R _{thj-amb} •	Thermal Resistance	Junction-Ambient	Max	200	°C/W	
R _{thj-case} •	Thermal Resistance	Junction-Case	Max	83.3	°C/W	

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

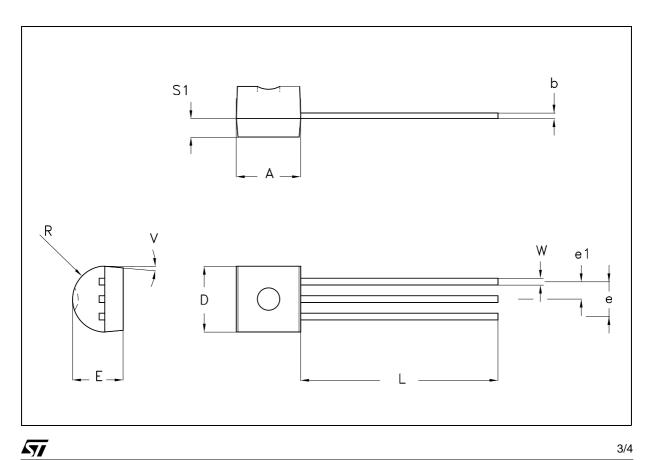
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit	
Ісво	Collector Cut-off Current (I _E = 0)	V _{CB} = -20 V V _{CB} = -20 V T _C = 150 °C			-100 -5	nΑ μΑ	
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = -5 V			-100	nA	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _E = 0)	I _C = -10 μA	-50			V	
V _{(BR)CEO*}	Collector-Emitter Breakdown Voltage (I _B = 0)	I _C = -10 mA	-45			V	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _C = 0)	ΙΕ = -10 μΑ	-5			V	
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	$I_C = -500 \text{ mA}$ $I_B = -50 \text{ mA}$			-0.7	V	
V _{BE(on)} *	Base-Emitter On Voltage	Ic = -500 mA			-1.2	V	
h _{FE} *	DC Current Gain	I _C = -100 mA	160 250		400 600		
f⊤	Transition Frequency	$I_{C} = -10 \text{mA V}_{CE} = -5 \text{ V f} = 100 \text{MHz}$	80			MHz	
Ссво	Collector-Base Capacitance	I _E = 0 V _{CB} = -10 V f = 1 MHz		10		pF	

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

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TO-92 MECHANICAL DATA

DIM.	mm			inch			
2 .	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
А	4.32		4.95	0.170		0.195	
b	0.36		0.51	0.014		0.020	
D	4.45		4.95	0.175		0.194	
E	3.30		3.94	0.130		0.155	
е	2.41		2.67	0.095		0.105	
e1	1.14		1.40	0.045		0.055	
L	12.70		15.49	0.500		0.609	
R	2.16		2.41	0.085		0.094	
S1	1.14		1.52	0.045		0.059	
W	0.41		0.56	0.016		0.022	
V	4 degree		6 degree	4 degree		6 degree	



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