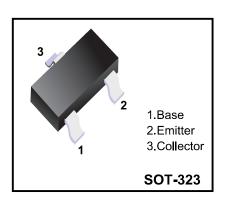


■ NPN Transistors

■ Features

Collector Current: Ic=0.5A



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	Vсво	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter-Base Voltage	VEBO	5	V
Collector Current -Continuous	lc	0.5	А
Collector Dissipation	Pc	0.3	W
Junction Temperature	Tj	150	$^{\circ}$ C
Storage Temperature	Tstg	-55 to 150	$^{\circ}$ C

■ Electrical Characteristics Ta = 25°C

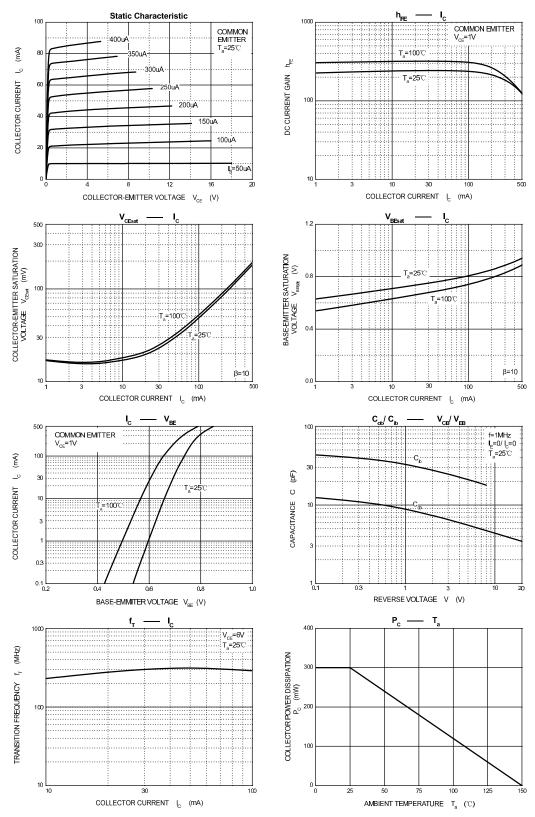
Parameter	Symbol	Testconditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	Vсво	Ic = 100 uA, I E = 0	40			V
Collector-emitter breakdown voltage	VCEO	Ic = 1mA , IB = 0	25			V
Emitter-base Breakdown voltage	VEBO	IE = 100 u A, I C = 0	5			V
Collector-base cut-off current	ICBO	VcB = 40 V , IE = 0			0.1	μА
Collector-emitter cut-off current	ICEO	VcE = 20 V , IB = 0			1	μА
Emitter-base cut-off current	I EBO	V _{EB} = 5 V , I _C = 0			0.1	μА
DC current gain	hFE	Vce = 1 V , Ic = 50 mA	120		400	
		VCE = 1 V , IC = 500 mA	50			
Collector-emitter saturation voltage	VCE(sat)	Ic = 500 mA , IB = 50 mA			0.6	V
Base-emitter saturation voltage	VBE(sat)	Ic = 500 mA , IB = 50 mA			1.2	V
Transition frequency	fτ	VcE = 6 V , Ic = 20 mA , f = 30 MHz	150			MHz

■ Classification of hfe(1)

Туре	S8050W		
Range	200-350		
Marking	J3Y		



■ Typical Characteristics



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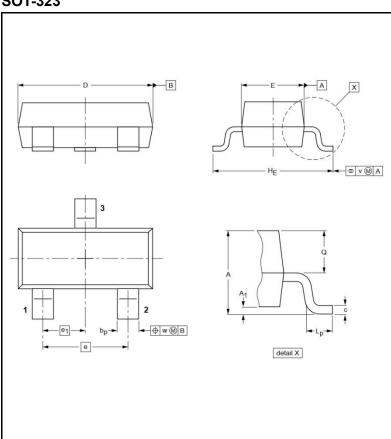


Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-323	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

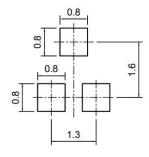
Package Dimensions

SOT-323



Dim.		meter im)	mil		
	Min.	Max.	Min.	Max.	
Α	0.8	1.1	32	43	
A1	0.1		4		
bp	0.3	0.4	12	16	
С	0.10	0.25	4	10	
D	1.8	2.2	71	87	
E	1.15	1.35	45	53	
E	1.3		51		
E1	0.65		26		
HE	2.0	2.2	79	87	
Lp	0.15	0.45	6	18	
Q	0.13	0.23	5.1	9	
٧	0.2		8		
W	0.2		8		

The recommended mounting pad size



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