VPN Gener	ral Purpos	o Switchi			
vonage	200V	Current	ng Transis 3A	Stor TO-252AA	Unit: inch(mm)
Features					
Collector-emHigh collectoLead free in 	al Silicon, Plana itter voltage VC or current = 3A compliance with ng compound a Data	CE = 200V h EU RoHS 2.0		0.265(6.73) 0.250(6.35) 0.215(5.46) 0.195(4.95) 0.195(4.95) 0.035(0.89) 0.025(0.64) 0.09(2.29) 0.09(2.29) 0.09(2.29)	0.018(0.46) 0.018(0.46) 0.018(0.46) MAX.: 0.005 0.108(2.74) BSC. 0.02(0.508)
	2AA Package olderable per M	111 -STD-750 N	lethod 2026		(2.23) BSC.
	ght: 0.0104 our				c

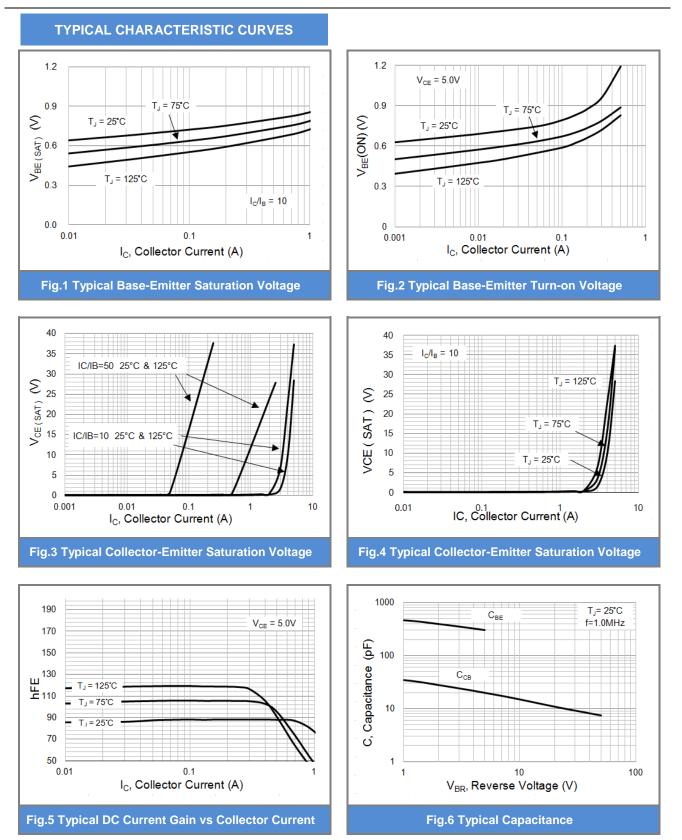
Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CBO}	250	V
Collector-Emitter Voltage	V _{CEO}	200	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current (DC)	I _C	3	А
Collector Current (Pulse)	I _{CP}	6	А
Total Power Dissipation	PTOTAL	1.56	W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55~150	°C



PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics						
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = 1.0mA, I _B = 0A	200	-	-	V
Collector-Base Breakdown Voltage	BV _{CBO}	I _C = 100uA, I _E = 0A	250	-	-	V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E = 100uA, I _C = 0A	6	-	-	V
Collector-Base Cutoff Current	I _{CBO}	V_{CB} = 200V, I_{E} = 0A	-	-	50	nA
Emitter-Base Cutoff Current	I _{EBO}	V _{EB} = 6V	-	-	50	nA
Collector-Emitter Cutoff Current	I _{CES}	V _{CES} = 200V	-	-	50	nA
ON characteristics						
	h _{FE}	V_{CE} = 5V, I _C = 20mA	40	-	-	
DC Current Gain		V_{CE} = 5V , I _C = 500mA	40	80	160	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = 1A, I _B = 100mA	-	0.2	1	V
Base-Emitter Saturation voltage	V _{BE(SAT)}	I _C = 1A, I _B = 100mA	-	-	1.1	V
Collector-Base Capacitance	C _{CBO}	V _{CB} = 10V, f=1MHz	-	-	30	pF
Transition Frequency	f⊤	V _{CB} = 0.5V, f=1MHz	50	-	-	MHz
Turn-ON Time	Ton	VCC= 20V, RL= 40ohm	-	100	-	nS
Turn-OFF Time	Toff	IC= 500mA, IB= 50mA	-	1500	-	nS





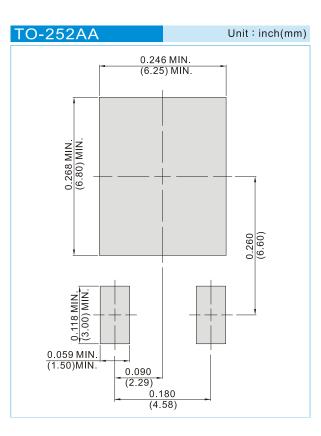




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
2SC949D_L2_00001	TO-252AA	3000pcs / 13" reel	C949D	Halogen free

MOUNTING PAD LAYOUT





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