



# 2SC4919-S — NPN Epitaxial Planar Silicon Transistor

## Muting Circuit Applications

### Features

- Ultrasmall-sized package permitting applied sets to be made small and slim.
- Small output capacitance.
- Low collector-to-emitter saturation voltage.
- Low ON resistance.

### Specifications

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		25	V
Collector-to-Emitter Voltage	VCEO		15	V
Emitter-to-Base Voltage	VEBO		15	V
Collector Current	IC		100	mA
Collector Current (Pulse)	ICP		200	mA
Base Current	IB		20	mA
Collector Dissipation	PC		150	mW
Junction Temperature	TJ		150	°C
Storage Temperature	Tstg		-55 to +150	°C

#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	VCB=15V, IE=0A			0.1	μA
Emitter Cutoff Current	IEBO	VEB=4V, IC=0A			0.1	μA
DC Current Gain	hFE	VCE=2V, IC=5mA	800		3200	
Gain-Bandwidth Product	fT	VCE=5V, IC=10mA		240		MHz
Output Capacitance	Cob	VCB=10V, f=1MHz		1.4		pF

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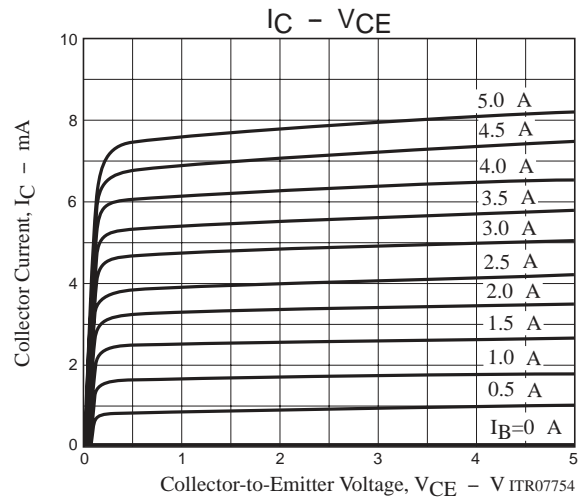
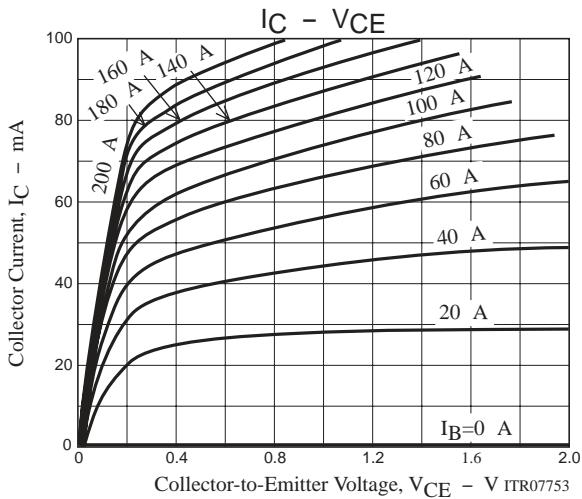
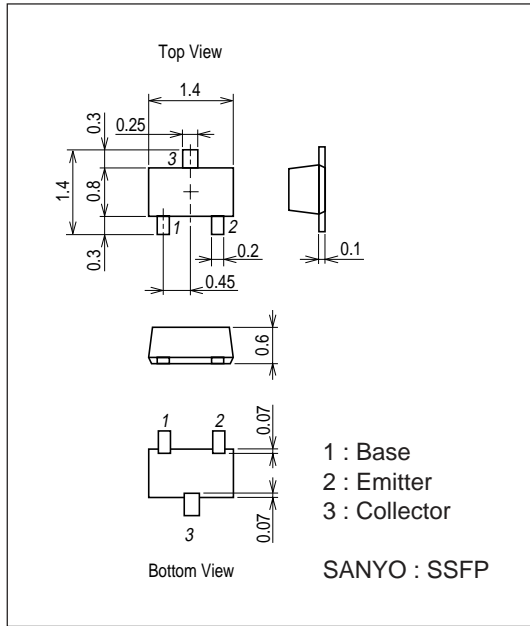
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$		14	30	mV
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=10mA, I_B=1mA$		0.74	1.1	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0A$	25			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	15			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0A$	15			V
On Resistance	$R_{on}$	$I_B=3mA, f=1MHz$		0.9		$\Omega$

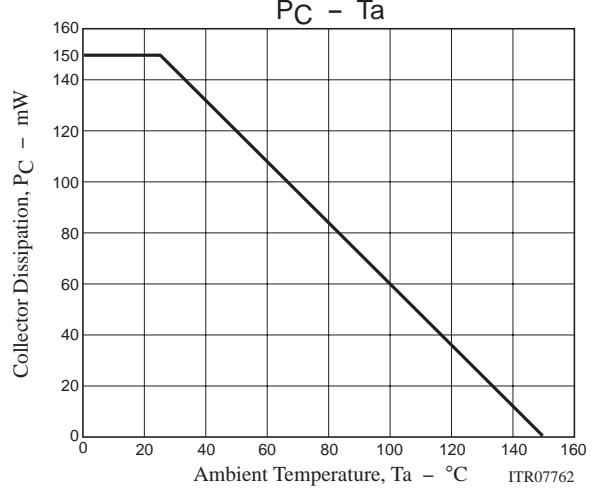
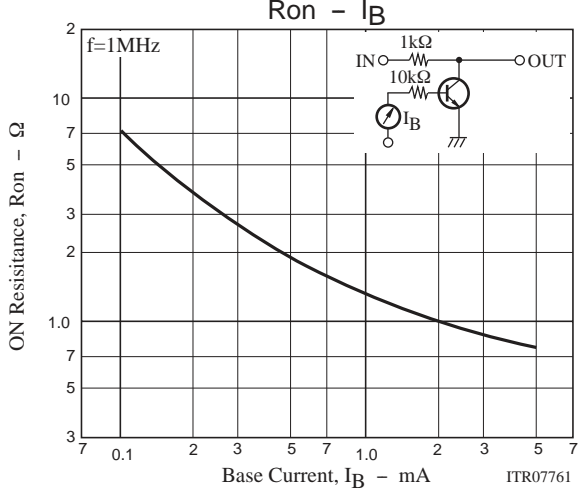
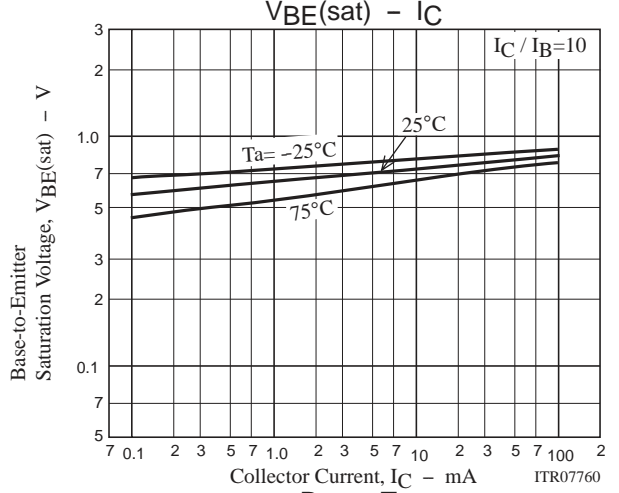
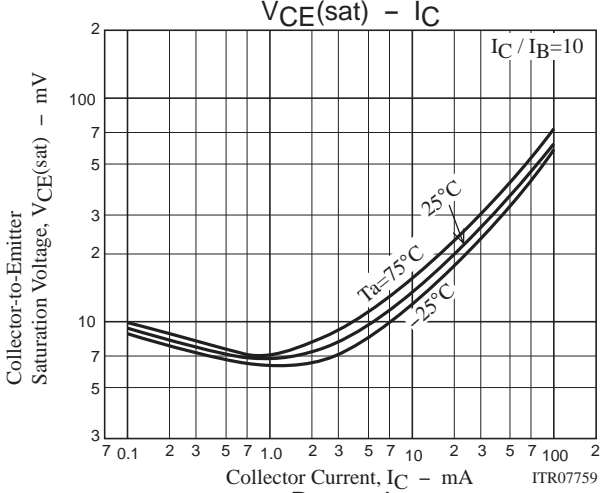
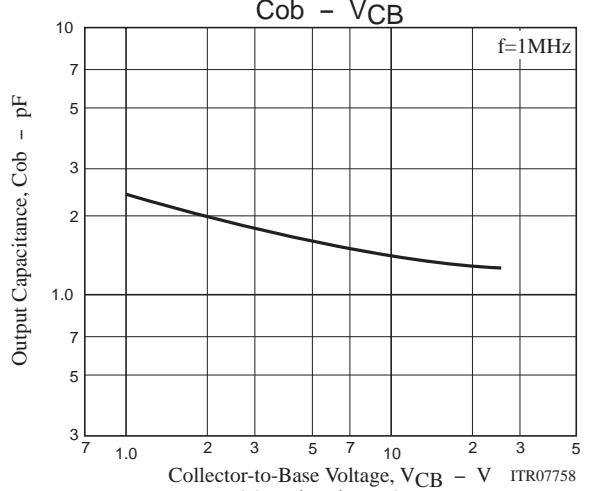
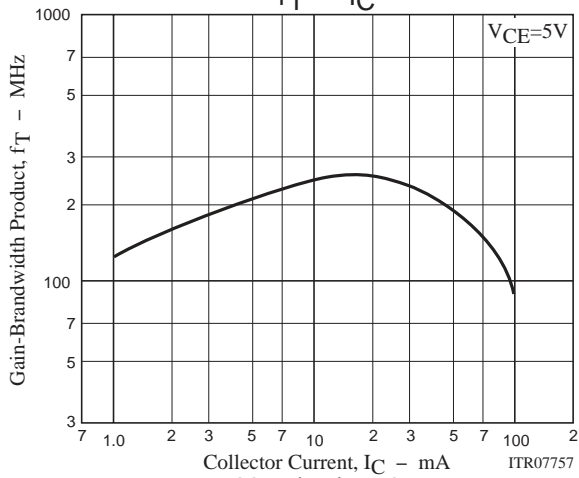
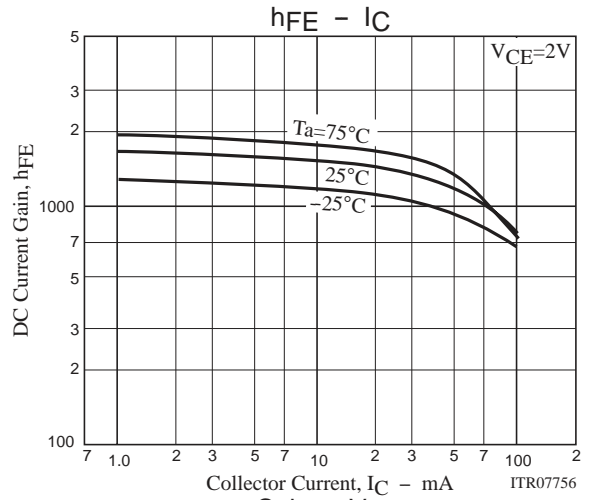
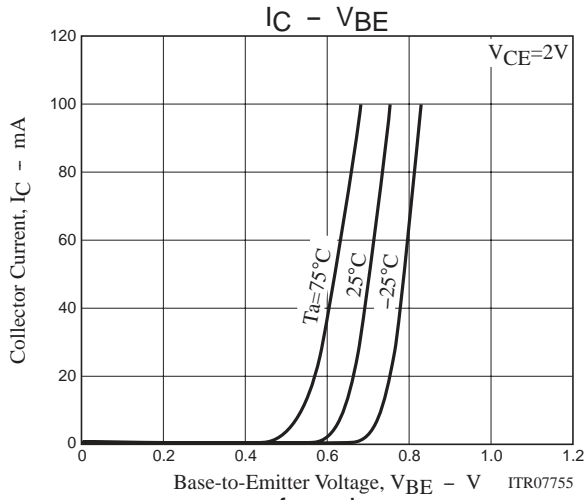
## Package Dimensions

unit : mm (typ)

7029-002



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