

2SC4256

1200V/10mA High-Voltage Amplifier, High-Voltage Switching Applications

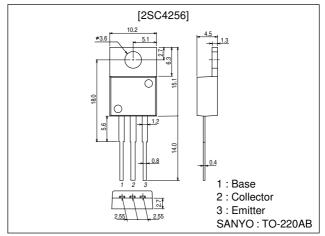
Features

- · High breakdown voltage.
- · Small Cob.
- · Wide ASO.
- \cdot High reliability (Adoption of HVP process).

Package Dimensions

unit:mm

2010C



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		1500	V
Collector-to-Emitter Voltage	V _{CEO}		1200	V
Emitter-to-Base Voltage	V _{EBO}		5	V
Collector Current	I _C		10	mA
Collector Current (Pulse)	I _{CP}		30	mA
Collector Dissipation	PC		1.75	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

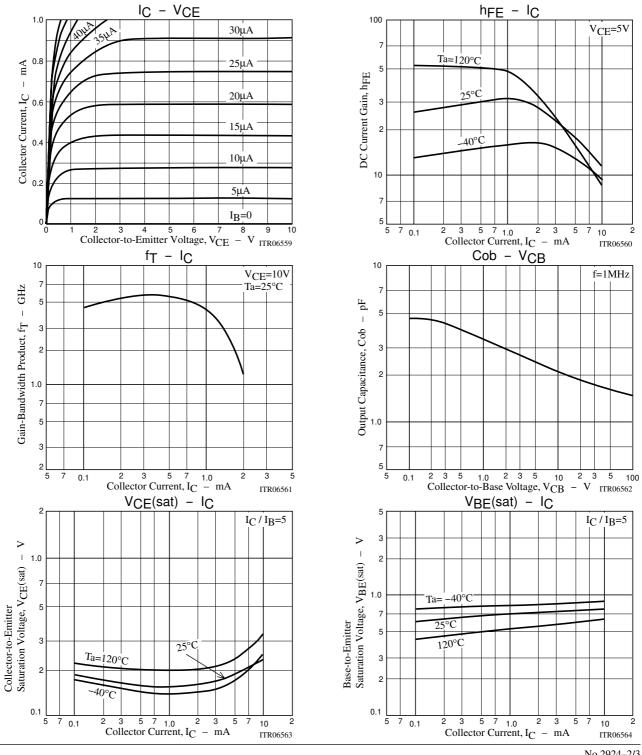
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offit
Collector Cutoff Current	I _{CBO}	V _{CB} =1200V, I _E =0			1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			1	μΑ
DC Current Gain	hFE	V _{CE} =5V, I _C =0.5mA	10		60	
Gain-Bandwidth Product	fΤ	V _{CE} =10V, I _C =0.5mA		6		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1mA, I _B =0.2mA			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1mA, I _B =0.2mA		·	2	V

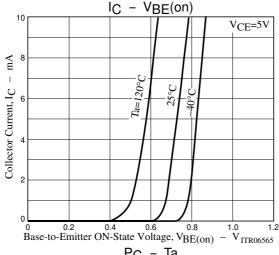
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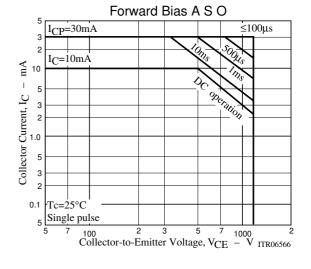
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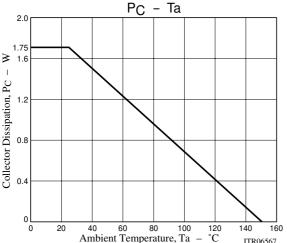
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Base Breakdown Voltage	V _(BR) CBO	$I_{C}=100\mu A, I_{E}=0$	1500			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =1mA, R _{BE} =∞	1200			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	$I_{E}=100\mu A, I_{C}=0$	5			V
Output Capacitance	C _{ob}	V _{CB} =100V, f=1MHz		1.6		pF









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