NPN Triple Diffused Planar Silicon Transistor

2SC4256



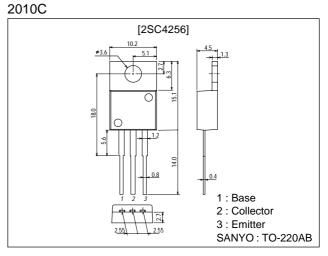
1200V/10mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- · High breakdown voltage.
- \cdot Small C_{ob}.
- \cdot Wide ASO.
- · High reliability (Adoption of HVP process).

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

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	VEBO		5	V
Collector Current	IC		10	mA
Collector Current (Pulse)	ICP		30	mA
Collector Dissipation	PC		1.75	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at $Ta = 25^{\circ}C$

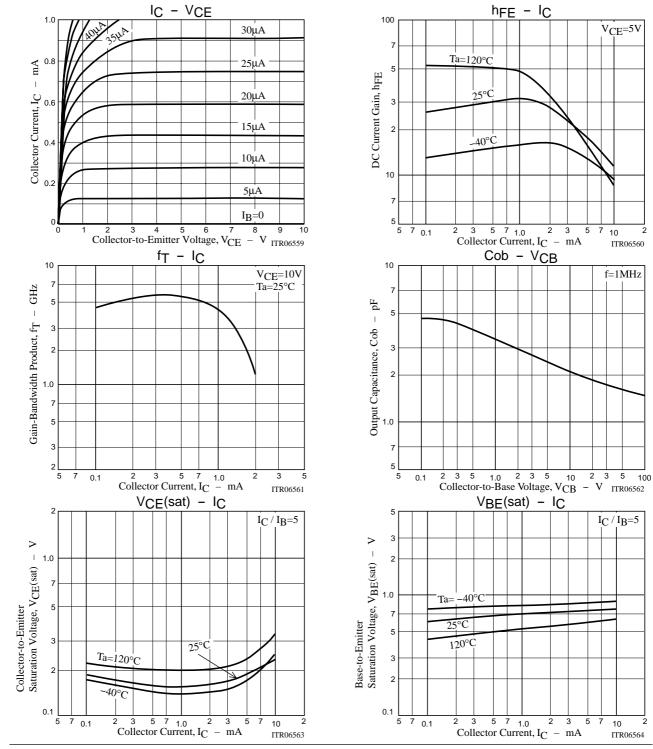
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =1200V, I _E =0			1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			1	μA
DC Current Gain	hFE	V _{CE} =5V, I _C =0.5mA	10		60	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =0.5mA		6		MHz
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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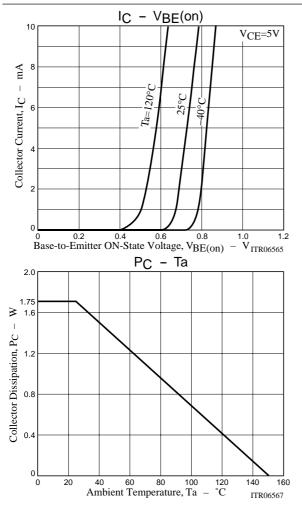
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =100μA, I _E =0	1500			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	1200			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =100μA, I _C =0	5			V
Output Capacitance	C _{ob}	V _{CB} =100V, f=1MHz		1.6		pF

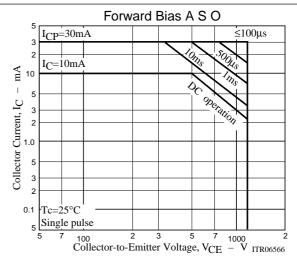


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