Ordering number: EN2925A

NPN Triple Diffused Planar Silicon Transistor



2SC4257

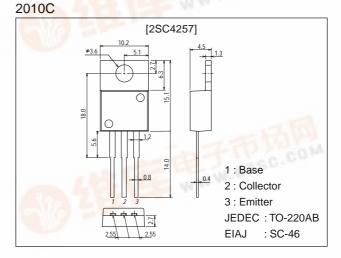
1200V/30mA High-Voltage Amplifier, **High-Voltage Switching Applications**

Features

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

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

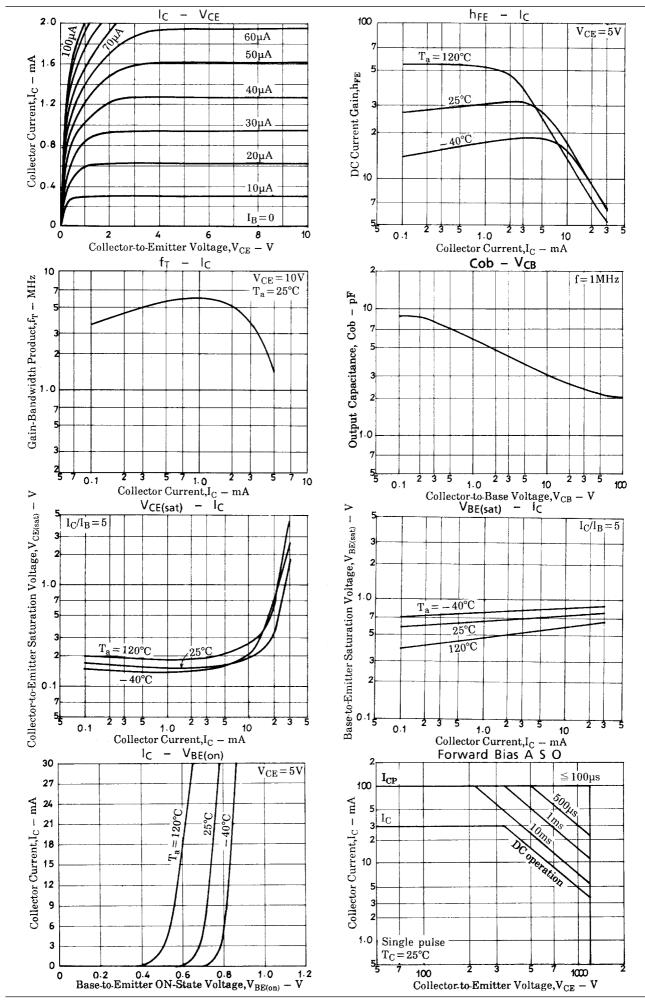
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		1500	V
Collector-to-Emitter Voltage	V _{CEO}		1200	V
Emitter-to-Base Voltage	V _{EBO}	pull	5	V
Collector Current	Ic	and E	30	mA
Collector Current (Pulse)	I _{CP}	a subs Carrent	100	mA
Collector Dissipation	PC	AND LIFE VOLUME	1.75	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		−55 to +150	°C

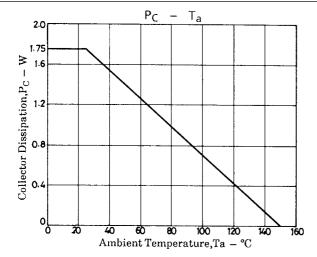
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Farameter			min	typ	max	Offic
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 =1.5mA	10		60	
Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =1.5mA	_	6		MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =3mA, I _B =0.6mA	-0.	7	5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =3mA, I _B =0.6mA		41.5	2	V
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	Cob	V _{CB} =100V, f=1MHz		2.0		pF

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SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters





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