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NPN Triple Diffused Planar Silicon Transistor

2SC4476

1800V/10mA High-Voltage Amplifier, High-Voltage Switching Applications

Applications

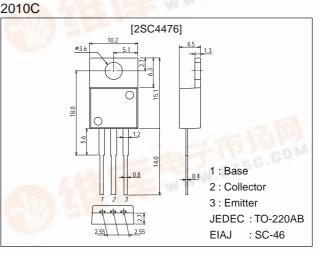
- · High voltage amplifier.
- · High voltage switching.
- · Dynamic focus.

Features

- · High breakdown voltage (V_{CEO} min=1800V).
- Small C_{ob} (C_{ob} typ=1.8pF).
- · 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	VCBO		2000	V
Collector-to-Emitter Voltage	VCEO		1800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		10	mA
Collector Current (Pulse)	I _{CP}	A REAL PROPERTY	30	mA
Collector Dissipation	PC		1.75	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

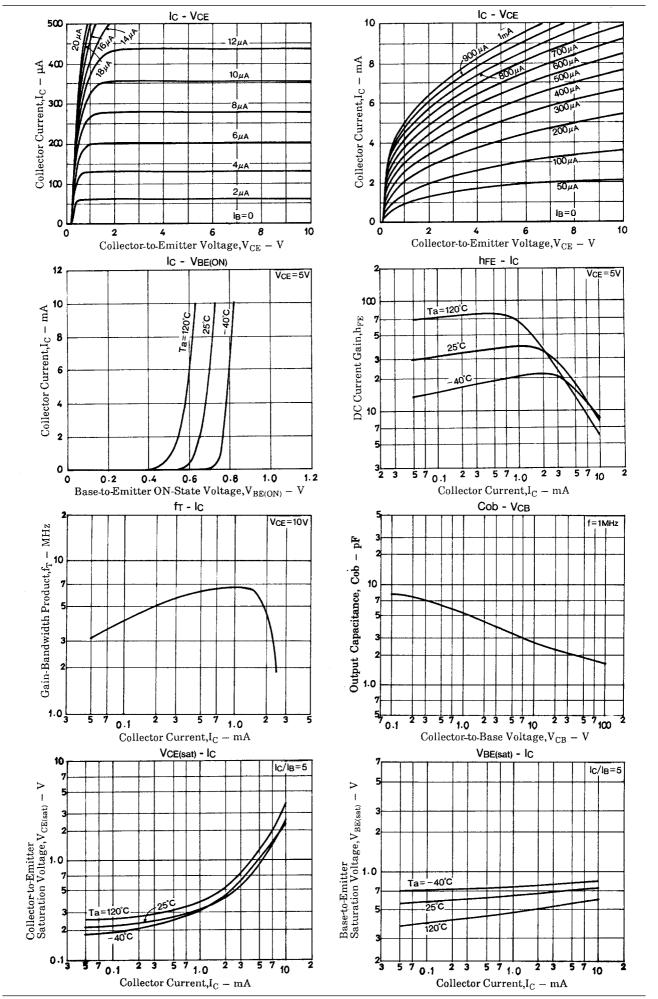
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =1800V, I _E =0			1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			1	μA
D <mark>C Current</mark> Gain	h _{FE}	V _{CE} =5V, I _C =300µA	10		60	10.3
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =300µA	-	6	1 2 2	MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =600μA, I _B =120μA		1	5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =600μA, I _B =120μA	in M	W - P -	2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =100μA, I _E =0	2000			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =100µA, R _{BE} =∞	1800			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	5			V
Output Capacitance	Cob	V _{CB} =100V, f=1MHz		1.8		pF

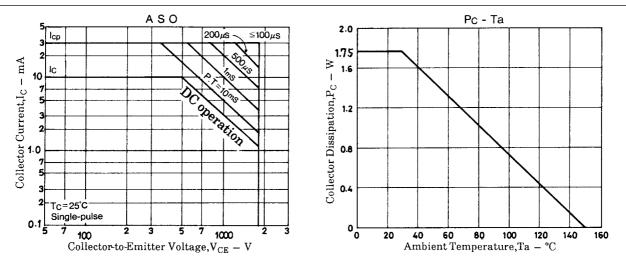
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