

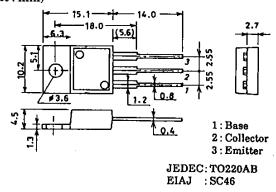
## Features

- $\cdot$  High breakdown voltage (V\_{CEO} min = -900 V).
- $\cdot$  Small Cob (Cob typ = 2.2pF).
- · High reliability (Adoption of HVP process).

## Absolute Maximum Ratings at Ta = 25°C

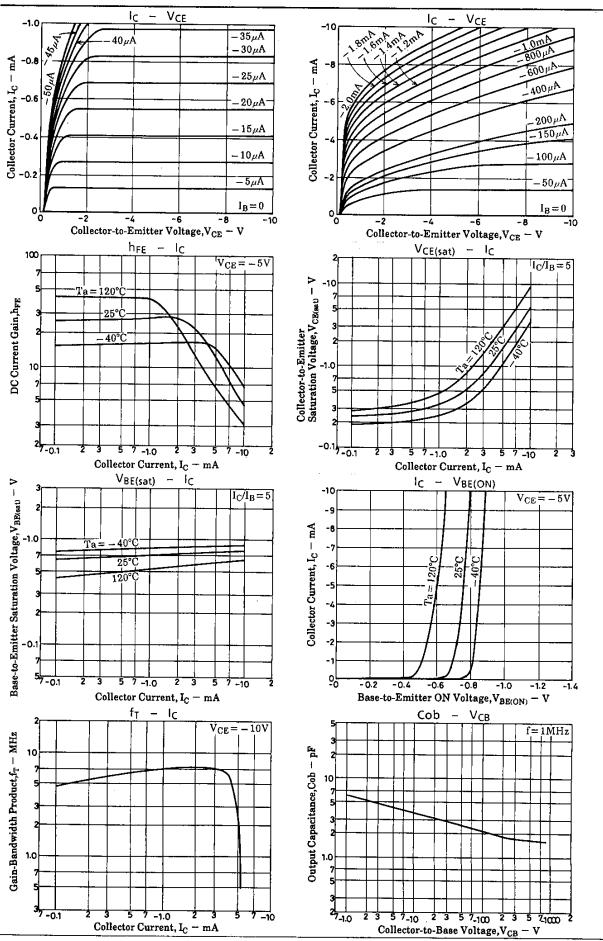
Absolute Maximum Ratings a			$\mathbf{unit}$			
Collector-to-Base Voltage	V <sub>CBO</sub>			900	v	
Collector-to-Emitter Voltage	VCEO		-	900	v	
Emitter-to-Base Voltage	VEBO			-7 -	v	
Collector Current	$I_{C}^{1}$		-	-10	mA	
Collector Current (Pulse)	I <sub>CP</sub>			-30	mA	
Collector Dissipation	P <sub>C</sub>			75	W	
Junction Temperature	Тj		-	150	°Ċ	
Storage Temperature	Tstg		-55 to $+150$		°Č	
Electrical Characteristics at Ta = 25°C			min	typ	max	unit
Collector Cutoff Current	I <sub>CBO</sub>	$V_{CB} = -900V_{IE} = 0$		- <b>J F</b>	-1	μA
Emitter Cutoff Current	IEBO	$V_{EB} = -5V I_{C} = 0$			$-\overline{1}$	μA
DC Current Gain	hFE	$V_{CE} = -5V I_C = -1mA$	20		50	P~~ -
Gain-Bandwidth Product	f <sub>T</sub>	$V_{CE} = -10V_{IC} = -1mA$	_0	6	00	MHz
Output Capacitance	Cob	$V_{CB} = -100V, f = 1MHz$		2.2		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_{C} = -500 \mu A, I_{B} = -100 \mu A$			-1	V
<b>B-E Saturation Voltage</b>	V <sub>BE(sat)</sub>	$I_{\rm C} = -500 \mu A$ , $I_{\rm B} = -100 \mu A$			-1.5	v
C-B Breakdown Voltage	V <sub>(BR)CBO</sub>	• • • •	-900		1.0	v
C-E Breakdown Voltage	V <sub>(BR)CEO</sub>		-900			v
E-B Breakdown Voltage	V <sub>(BR)EBO</sub>	$I_{\rm E} = -100 \mu A, I_{\rm C} = 0$	-7			v
8-	(010)000		•			v

## Package Dimensions 2010C (unit:mm)

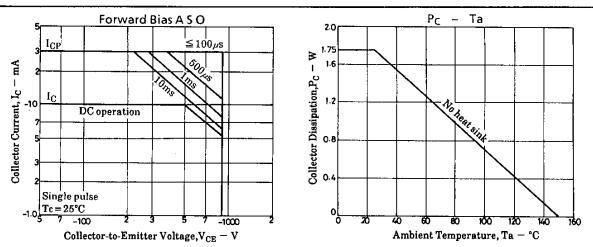


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