2SC2653, 2SC2653(H)

Silicon PNP Triple-Diffused Planar Type

Horizontal Deflection Driver for Color TV set

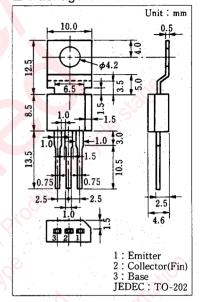
■ Features

- High collector-emitter voltage (V_{CEO})
- Large collector power dissipation (Pc)

■ Absolute Maximum Ratings (Ta=25°C)

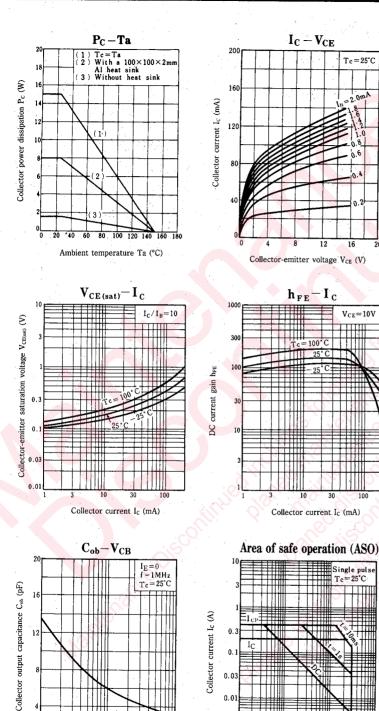
Item		Symbol	Value	Unit	
Collector- base voltage	2SC2653	37	350	77	
	2SC2653(H)	V_{CBO}	480	· V	
Collector-emitter voltage		V _{CEO}	300	V	
Emitter-base voltage		V _{EBO}	7.5	V	
Collector current		Ic	200	mA	
Collector power dissipation (Tc=25°C)		Pc	15	W	
Junction temperature		T,	150	C ()	
Storage temperature		Tstg	$-55 \sim +150$	C.	

■ Package Dimensions



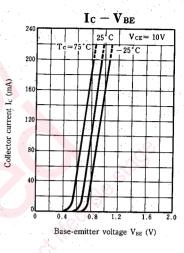
■ Electrical Characteristics (Tc=25°C)

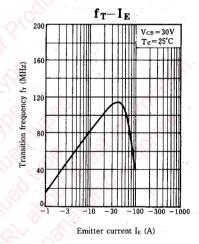
Item		Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current		Ісво	$V_{CB} = 200 \text{ V}, I_E = 0$	$O(1, \mathbb{Z})$	(O)	2	μA
Emitter cutoff current		I _{EBO}	$V_{EB} = 5 \text{ V}, I_C = 0$	9		2	μA
Collector- base voltage	2SC2653	V _{CBO}	$I_{\rm C} = 100 \ \mu {\rm A}, \ I_{\rm E} = 0$	350	9		V
	2SC2653(H)		$I_C = 100 \mu A, I_E = 0, Ta = 100 °C$	480			
Collector- emitter voltage	2SC2653	VCEO	$I_C=5$ mA, $I_B=0$	300			V
	2SC2653(H)		$I_C = 5 \text{ mA}, I_B = 0, Ta = 100 °C$	300			
Collector-emitter voltage		VCER	$I_C = 100 \mu\text{A}, R_{BE} = 1\text{k}\Omega$	350			V
Emitter-base voltage		V _{EBO}	$I_{\rm E} = 100 \ \mu A, \ I_{\rm C} = 0$	7.5			V
DC current gain		hfE	$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$	40		250	
Collector-emitter saturation voltage		V _{CE(sat)}	$I_C=50$ mA, $I_B=5$ mA			1	V
Transition frequency		f_T	$V_{CB} = 30V$, $I_E = -10mA$, $f = 200MHz$	50			MHz
Collector output capacitance		Сов	$V_{CB} = 50 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			4.5	pF
Storage time		tstg	$I_C = 100 \text{ mA}, I_{B1} = 10 \text{ mA}, I_{B2} = 0$	5		7.5	μs

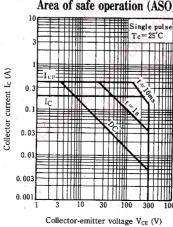


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Collector-base voltage V_{CB} (V)







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