

2SC2653, 2SC2653(H)

Silicon PNP Triple-Diffused Planar Type

Horizontal Deflection Driver for Color TV set

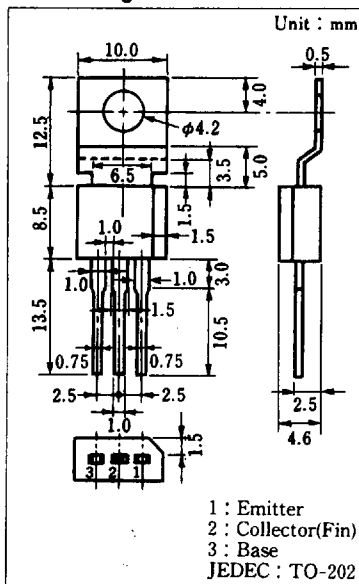
■ Features

- High collector-emitter voltage (V_{CE0})
- Large collector power dissipation (P_C)

■ Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Collector-base voltage	2SC2653	350	V
	2SC2653(H)	480	
Collector-emitter voltage	V_{CE0}	300	V
Emitter-base voltage	V_{EB0}	7.5	V
Collector current	I_C	200	mA
Collector power dissipation ($T_c=25^\circ\text{C}$)	P_C	15	W
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{str}	-55 ~ +150	$^\circ\text{C}$

■ Package Dimensions



■ Electrical Characteristics ($T_c=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CBO}	$V_{CB}=200\text{ V}, I_E=0$			2	μA
Emitter cutoff current	I_{EBO}	$V_{EB}=5\text{ V}, I_C=0$			2	μA
Collector-base voltage	V_{CBO}	$I_C=100\ \mu\text{A}, I_E=0$	350			V
		$I_C=100\ \mu\text{A}, I_E=0, T_a=100\ ^\circ\text{C}$	480			
Collector-emitter voltage	V_{CEO}	$I_C=5\text{ mA}, I_B=0$	300			V
		$I_C=5\text{ mA}, I_B=0, T_a=100\ ^\circ\text{C}$	300			
Collector-emitter voltage	V_{CER}	$I_C=100\ \mu\text{A}, R_{BE}=1\text{ k}\Omega$	350			V
Emitter-base voltage	V_{EBO}	$I_E=100\ \mu\text{A}, I_C=0$	7.5			V
DC current gain	h_{FE}	$V_{CE}=10\text{ V}, I_C=10\text{ mA}$	40		250	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=50\text{ mA}, I_B=5\text{ mA}$			1	V
Transition frequency	f_T	$V_{CB}=30\text{ V}, I_E=-10\text{ mA}, f=200\text{ MHz}$	50			MHz
Collector output capacitance	C_{ob}	$V_{CB}=50\text{ V}, I_E=0, f=1\text{ MHz}$			4.5	pF
Storage time	t_{str}	$I_C=100\text{ mA}, I_{B1}=10\text{ mA}, I_{B2}=0$	5		7.5	μs

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