2SC5584

Silicon NPN triple diffusion mesa type

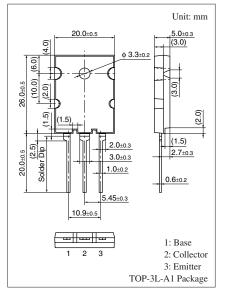
For horizontal deflection output

Features

- High breakdown voltage, and high reliability through the use of a glass passivation layer
- High-speed switching
- Wide safe operation area

Absolute Maximum Ratings $T_{\rm C} = 25^{\circ}{\rm C}$								
Parameter	Symbol	Rating	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	1 500	V					
Collector-emitter voltage (E-B short)	V _{CES}	1 500	V					
Collector-emitter voltage (Base open)	V _{CEO}	600	V					
Emitter-base voltage (Collector open)	V _{EBO}	7	V					
Base current	IB	8	А					
Collector current	I _C	20	А					
Peak collector current *	I _{CP}	30	А					
Collector power dissipation	P _C	150	W					
$T_a = 25^{\circ}C$		3.5						
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					

Absolute Maximum Ratings $T_c = 25^{\circ}C$



Note) *: Non-repetitive peak collector current

Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 1000$ V, $I_E = 0$			50	μΑ
		$V_{CB} = 1500 \text{ V}, I_E = 0$			1	mA
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = 7 V, I_C = 0$			50	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 5 V, I_C = 10 A$	7		14	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = 10 \text{ A}, I_{B} = 2.5 \text{ A}$			3	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_{C} = 10 \text{ A}, I_{B} = 2.5 \text{ A}$			1.5	V
Transition frequency	f _T	$V_{CE} = 10 \text{ V}, I_C = 0.1 \text{ A}, f = 0.5 \text{ MHz}$		3		MHz
Storage time	t _{stg}	$I_C = 10 A$, Resistance loaded			2.7	μs
Fall time	t _f	$I_{B1} = 2.5 \text{ A}, I_{B2} = -5.0 \text{ A}$			0.2	μs

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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