Panasonic

2SC5410, 2SC5410A

Silicon NPN triple diffusion mesa type

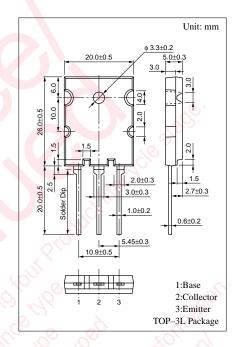
For horizontal deflection output

Features

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

Absolute Maximum Ratings (T_C=25°C)

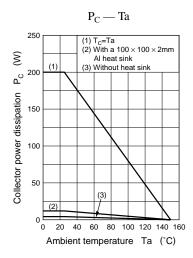
Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	1500	V	
C-11-4-44	V _{CES}	1500	V	
Collector to emitter voltage	V_{CEO}	600	V	
Emitter to base voltage	V _{EBO} 5		V	
Peak collector current	I_{CP}	30	A	
Collector current	$I_{\rm C}$	25	A	
Base current	I_{B}	15	A	
Collector power T _C =25°C	D	200	w	
dissipation Ta=25°C	P_{C}	3.5	10° W	
Junction temperature	$T_{\rm j}$	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C v	

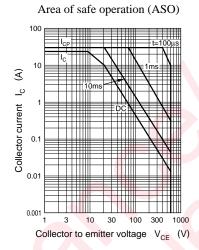


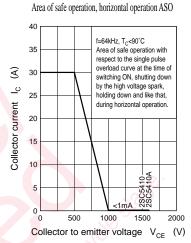
Electrical Characteristics (T_C=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SC5410	I_{CBO}	$V_{CB} = 1000V, I_E = 0$.0,		50	μΑ
current	2SC5410A		$V_{CB} = 1500V, I_{E} = 0$			1	mA
Emitter cutoff curre	nt	I_{EBO}	$V_{EB} = 5V, I_C = 0$			50	μA
Forward current tra	nsfer ratio	h _{FE}	$V_{CE} = 5V, I_{C} = 12A$	8		16	
Collector to emitter sa	turation voltage	V _{CE(sat)}	$I_{\rm C} = 12A, I_{\rm B} = 3A$			3	V
Base to emitter satu	ration voltage	V _{BE(sat)}	$I_C = 12A, I_B = 3A$			1.5	V
Transition frequenc	y	f_T	$V_{CE} = 10V, I_C = 0.1A, f = 0.5MHz$		3		MHz
Storage time		t _{stg}	I 12A I 2A I 6A			4.0	μs
Fall time		t _f	$I_C = 12A, I_{B1} = 3A, I_{B2} = -6A$			0.3	μs

Panasonic 1







2

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