2SC5441, 2SC5441A

Silicon NPN triple diffusion mesa type

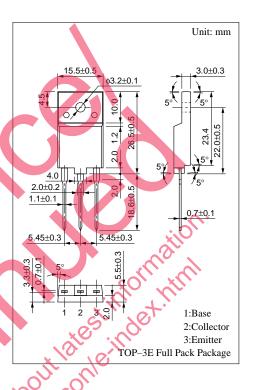
For horizontal deflection output

Features

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

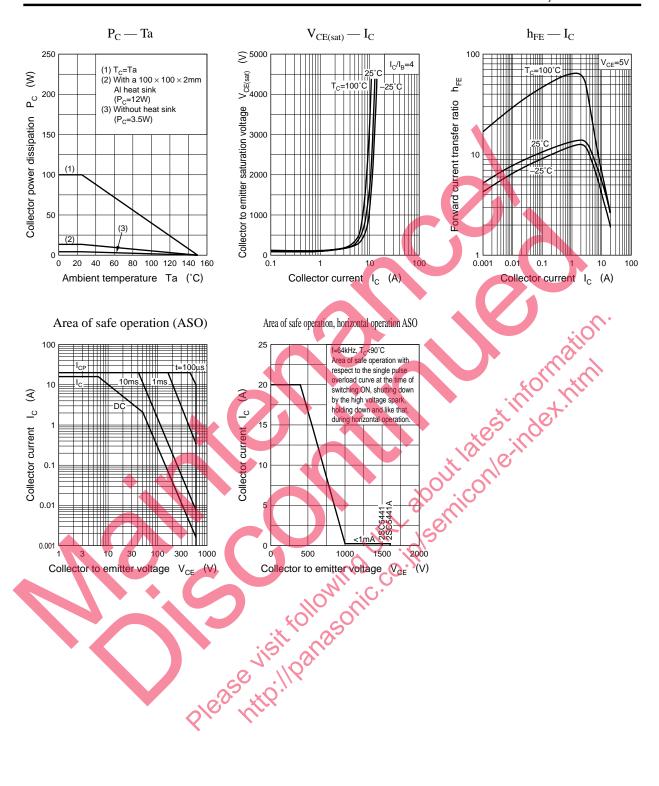
Absolute Maximum Ratings (T_C=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	1500	V	
C-11	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}	20	20 A	
Collector current	ctor current I _C 15		A	
Base current	I_{B}	8	A	
Collector power $T_C=25^{\circ}C$		100	W	
dissipation Ta=25°C	Pc	3.5	W	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	
			-C)	



Electrical Characteristics (T_C=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff 2SC5441		$V_{CB} = 1000V, I_E = 0$			50	μА
current 2SC5441A	1 _{CBO}	$V_{CB} = 1500V, I_E = 0$			1	mA
Emitter cutoff current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$			50	μΑ
Forward current transfer ratio	h _{FE}	$V_{\rm CE} = 5 \text{V}, I_{\rm C} = 7.5 \text{A}$	5		12	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 7.5A, I_B = 1.88A$			3	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = 7.5A, I_B = 1.88A$			1.5	V
Transition frequency	f_{T}	$V_{CE} = 10V, I_{C} = 0.1A, f = 0.5MHz$		3		MHz
Storage time	t _{stg}	$I_C = 7.5A, I_{B1} = 1.88A, I_{B2} = -3.76A$			3.0	μs
Fall time	$t_{\rm f}$				0.2	μs



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