.6±0.2

Unit: mm

<u>2.9±0.2</u>

2SC5392

Silicon NPN triple diffusion planar type

For high breakdown voltage high-speed switching

Features

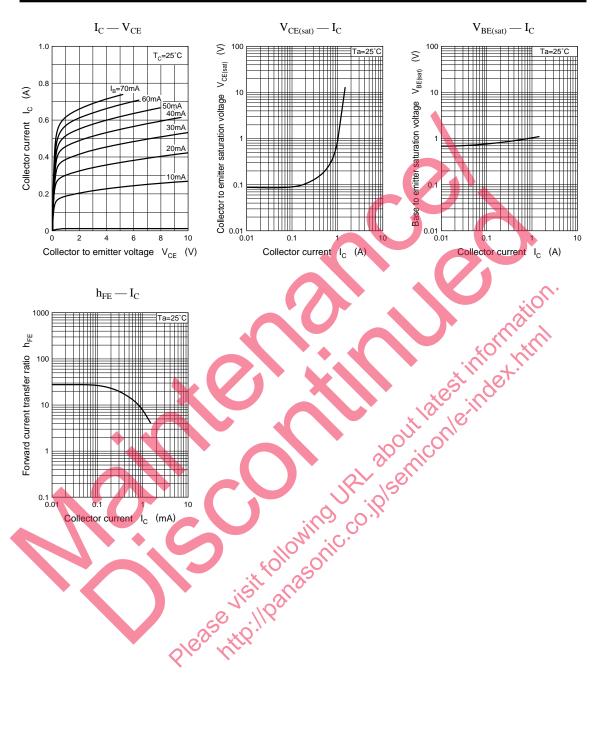
- High-speed switching
- High collector to base voltage V_{CBO} •
- Wide area of safe operation (ASO)
- Satisfactory linearity of foward current transfer ratio h_{FE}
- Dielectric breakdown voltage of the package: > 5kV



15.0±0.5

Electrical Characteristics (T_c=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 800V, I_E = 0$			100	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$			100	μA
Collector to emitter voltage	VCEO	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	500			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5V, I_C = 0.1A$	15			
	h _{FE2}	$V_{CE} = 5V, I_C = 0.6A$	8			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 0.6A, I_B = 0.17A$			1.0	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 0.6 A, I_{\rm B} = 0.17 A$			1.5	v
Transition frequency	f _T	$V_{CE} = 10V, I_{C} = 0.1A, f = 1MHz$		20		MHz
Turn-on time	t _{on}	$I_{C} = 0.6A, I_{B1} = 0.17A, I_{B2} = -0.34A,$ $V_{CC} = 200V$			1.0	μs
Storage time	t _{stg}				3.0	μs
Fall time	t _f				0.3	μs



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