

2SC5428

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
Collector to emitter voltage	V _{CES}	1500	V
	V _{CEO}	600	V
Emitter to base voltage	V _{EBO}	5	V
Peak collector current	I _{CP}	30	A
Collector current	I _C	25	A
Base current	I _B	10	A
Collector power dissipation	P _C	100	W
		3.5	
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics (T_C=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = 1000V, I _E = 0			50	μA
		V _{CB} = 1500V, I _E = 0			1	mA
Emitter cutoff current	I _{EBO}	V _{EB} = 5V, I _C = 0			50	μA
Forward current transfer ratio	h _{FE}	V _{CE} = 5V, I _C = 12A	7		14	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = 12A, I _B = 3A			3	V
Base to emitter saturation voltage	V _{BE(sat)}	I _C = 12A, I _B = 3A			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 = 12A, I _{B1} = 2.4A, I _{B2} = -4.8A			4.0	μs

