Ordering number:EN4725



FP214

NPN Epitaxial Planar Silicon Transistor

Motor Driver Applications

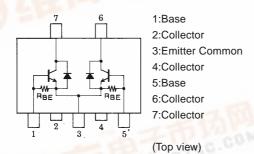
Features

· Composite type with 2 NPN transistors, facilitating high-density mounting.

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· The FP214 is composed of 2 chips, each being equivalent to the 2SD2100, placed in one package.

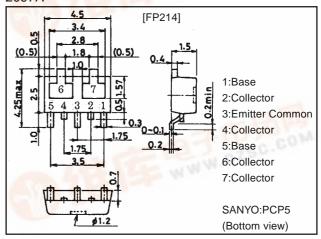
Electrical Connection



WWW.DZSC.COM **Package Dimensions**

unit:mm

2097A



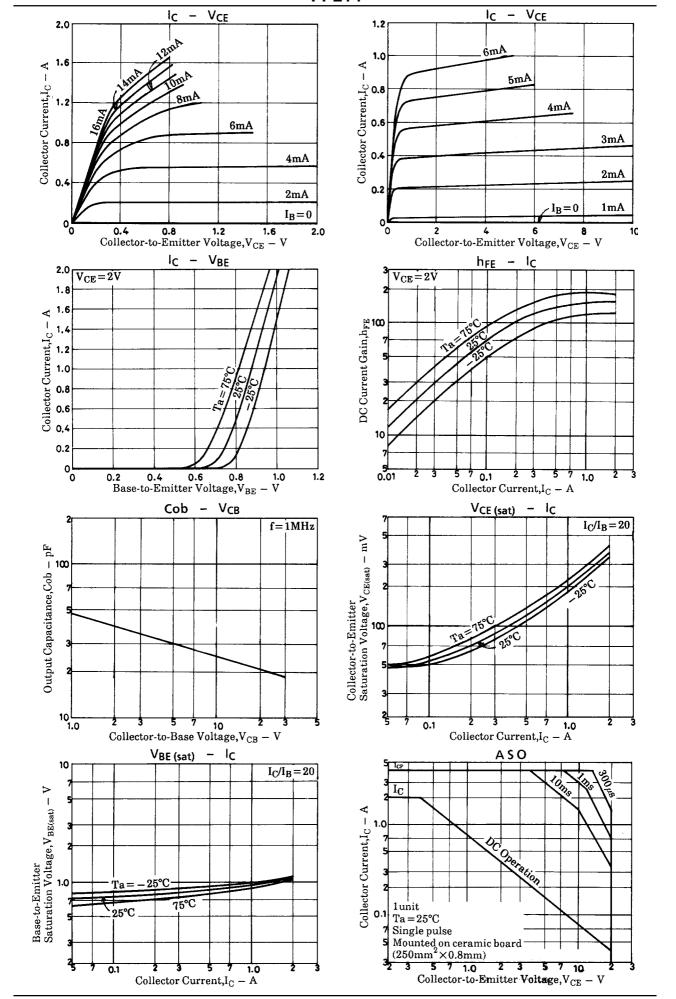
Specifications

Absolute Maximum Ratings at Ta = 25°C

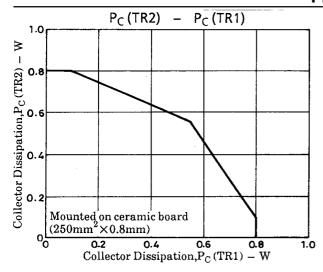
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO	(a)	25	V
Collector-to-Emitter Voltage	VCEO		20	V
Emitter-to-Base Voltage	V _{EBO}	1 FT \ T2- 11	6	V
Collector Current	I _C	AND THE PARTY OF	2	Α
Collector Current (Pulse)	I _{CP}	00/1/0	4	Α
Base Current	IB	TIME BOOK	400	mA
Collector Dissipation	PC	Mounted on ceramic board (250mm²×0.8mm) 1 unit	0.8	W
Total Power Dissipation	PT	Mounted on ceramic board (250mm²×0.8mm)	1.1	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

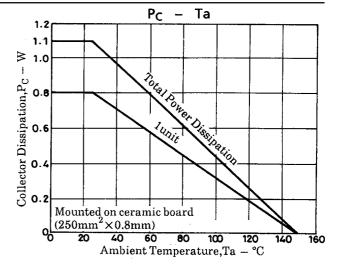
Electrical Characteristics at Ta=25°C

Parameter	Cumhal	O = = dit = = =	10	Ratings		
Parameter	Symbol	Conditons	min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =20V, I _E =0		M.D.	1	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =0.5A	70			
	h _{FE} 2	V _{CE} =2V, I _C =2A	50			
Gain-Bandwidth Product	fT	V _{CE} =2V, I _C =0.5A		200		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		25		pF
C-E Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =50mA		0.25	0.5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =50mA			1.5	V
C-B Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	25			V
C-E Breakdown Voltage	V _{(BR)CEO1}	I _C =10μA, R _{BE} =∞	25			V
	V _{(BR)CEO2}	I _E =10mA, R _{BE} =∞	20			V
Diode Forward Voltage	V _F	I _F =0.5A			1.5	V
Base-to-Emitter Resistance	R _{BE}			1.6		kΩ



FP214





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