Single Bipolar Transistor multicomp PRO



RoHS Compliant



Features

- Very Low Equivalent Resistance,
- SOT23 NPN Rsilicon planar

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	40		
Collector-emitter voltage	VCEO	40	V	
Emitter - Base Voltage	VEBO	5		
Peak collector current	Ісм	1	۸	
Collector current	lc	2	A	
Power Dissipation	Ptot	500	mW	
Operating and storage temperature range	TJ, Tstg	-55 to +150	°C	

Electrical Characteristics (TA = 25°C

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector- base breakdown voltage	V(BR)CBO	Ic= 100 μA	40			V
Collector- emitter breakdown voltage *	V(BR)CEO	Ic= 10 mA] 40			
Emitter - base breakdown voltage	V(BR)EBO	I _E = 100μA	5			
Collector cutoff current	Ісво	Vcb=30V, Vces= 30			400	nA
Emitter cut-off current	Ієво	V _{EB} =4V			100	
Collector-emitter saturation voltage *	VCE(sat)	Ic=500 mA, Iв=50mA Ic=1A, Iв=100mA			0.3 0.5	V
Base-emitter saturation voltage *	V _{BE(sat)}	Ic= 1 A, Iв= 100mA			1.1	
Base-emitter voltage *	VBE(on)	Ic= 1A VcE=5V			1	
Static Forward Current Transfer Ratio *	hfe	Ic= 1mA, VcE= 5V	200			
		Ic= 500mA, VcE= 5V	300		900	
		Ic= 1A, VcE= 5V	200			
		Ic= 2A VcE= 5V	35			
Current-gain-bandwidth product	f⊤	Ic=50mA, VcE= 10V, f=100MHz	150			MHz
Output capacitance	Cobo	Vcb= 10V, f=1MHz			10	pF

^{*} Pulse test: tp≤300 is; d≤0.02

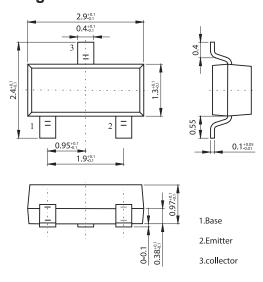
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Diagram



Part Number Table

Description	Part Number		
Single Bipolar Transistor, Medium Power, 2A, 40V, SOT 23	FMMT491A		

Dimensions: Millimetres

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