Single Bipolar Transistor multicomp



Feature

• Epitaxial planar Die construction.

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	-60		
Collector-Emitter Voltage	Vceo	-00	V	
Emitter - Base Voltage	Vebo	-5		
Collector Current - Continuous	lc	600	mA	
Power Dissipation	PD	250	mW	
Thermal resistance from junction to ambient	Reja	500	°C/W	
Junction Temperature	TJ	150	°C	
Storage temperature range	Tstg	-55 to +150		

Electrical Characteristics (Ta = 25°C

Parameter	Symbol	Test Conditions		Max	Unit	
Collector-Base Breakdown Voltage	V(BR)CBO	Ic= 100 μA, Iε = 0	-60			
Collector-Emitter Breakdown Voltage *	V(BR)CEO	Ic = 10 mA, Iв = 0			V	
Emitter-Base Breakdown Voltage	V(BR)EBO	Iε = 100 μA, Ic = 0				
Collector cutoff current	Ісво	V _{CB} =50V, I _E =0 V _{CE} =-30V, V _{EB(off)} =-0.5V		-20		
Collector cutoff current	ICEX			-50	nA	
DC current gain		Vce=-10V, Ic= -0.1mA	75			
		Vce=-10V, Ic= -1mA				
	hfe	Vce=-10V, Ic= -10mA	100			
		Vce=-10V, Ic= -150mA	1	300		
		Vce=-10V, Ic= -500mA	50			
Collector-Emitter Saturation Voltage *		Ic=150 mA, Iв=15mA		-0.4		
	VCE(sat)	Ic=500 mA, Iв=50mA		-1.6	V	
Base-Emitter Saturation Voltage *		Ic = 150 mA; Iв = -15 mA	1	-1.3		
	VBE(sat)	Ic = 500 mA; Iв = -50 mA		-2.6		
Current Gain - Bandwidth Product	f⊤	Vce=-20V, Ic=-50mA, f=100MHz			MHz	
Delay time	td	Vcc = -30V, lc = -150 mA, lв1 = -15 mA		10		
Rise time	tr			40		
Storage time	ts	Vcc = -6V, lc = -150 mA, lв1 = lв2 = -15mA		80	ns	
Fall time	tr			30		

* pulse test: Pulse Width ≤300µs, Duty Cycle≤ 2.0%

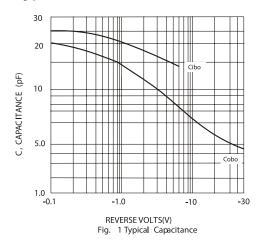
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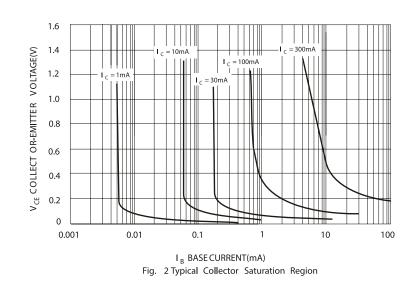


RoHS

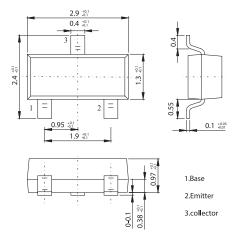
Compliant

Typical Characterisitics





Diagram



Marking: W2F

Part Number Table

	Description	Part Number	
Dimensions : Millimetres	Single Bipolar Transistor, PNP, 0.6A, -60V, SOT 23	MMBT2907A	

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