SMD Type Transistors

NPN Transistors MMBT2222A (KMBT2222A)

■ Features

- Epitaxial planar die construction.
- Complementary PNP type available(MMBT2907A)

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	70		
Collector - Emitter Voltage	VCEO 40		V	
Emitter - Base Voltage	VEBO	6		
Collector Current - Continuous	Ic	600	mA	
Power Dissipation	Po	250	mW	
Thermal resistance from junction to ambient	Reja	417	°C/W	
Junction Temperature	TJ	150	$^{\circ}$ C	
Storage Temperature Range	Tstg	-55 to 150		

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	V(BR)CBO	Ic = 100 μA, IE = 0	75			V
Collector-Emitter Breakdown Voltage	V(BR)CEO	Ic = 10 mA, I _B = 0	40			V
Emitter-Base Breakdown Voltage	V(BR)EBO	IE = 100 μ A, IC = 0	6			V
Collector cutoff current	Ісво	Vcb=60V, IE=0			100	nA
Collector cut-off current	ICEX	VCE=30V,VEB(off)=-3V			10	nA
Emitter cutoff current	ІЕВО	VEB= 3V, IC=0			100	nA
DC current gain	hFE	VcE=10V, Ic= 0.1mA	40			
		VcE=10V, Ic= 150mA	100		300	
		VcE=10V, Ic= 500mA	42			
collector-emitter saturation voltage * VCE(VCE(ant)	Ic = 150 mA; IB = 15 mA			0.3	V
	V CE(Sat)	Ic = 500 mA; IB = 50 mA			1	V
base-emitter saturation voltage * VBE(sat)	Voc	Ic = 150 mA; IB = 15 mA	0.6		1.2	V
	VBE(Sat)	Ic = 500 mA; IB = 50 mA			2	V
Transition frequency	fτ	Ic = 20 mA; VcE = 20 V; f = 100 MHz	300			MHz
Delay time	t d	td Vcc=30V, VBE(off)=-0.5V, tr Ic=150mA , IB1= 15mA			10	ns
Rise time	tr				25	ns
Storage time	ts	Vcc=30V, Ic=150mA,I _{B1} =-I _{B2} =15mA			225	ns
Fall time	tf				60	ns

^{*} pulse test: Pulse Width ≤300µs, Duty Cycle≤ 2.0%.

■ Mrarking

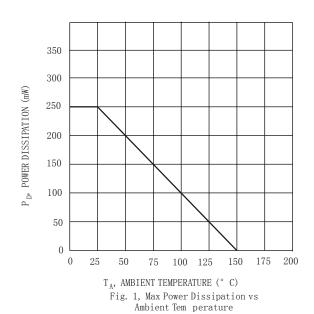
Marking	1P

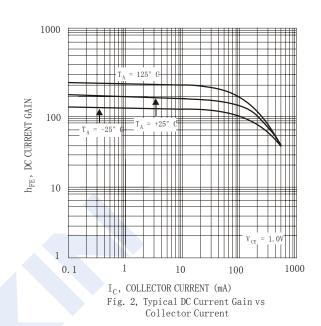


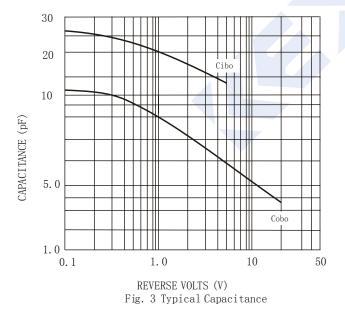
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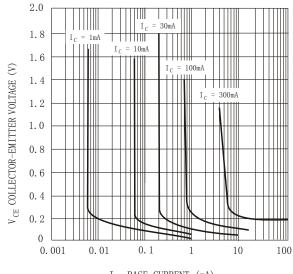
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■ Typical Characterisitics









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