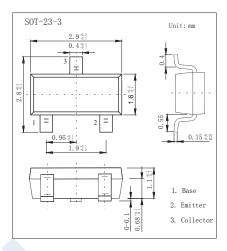
SMD Type Transistors

NPN Transistors MMBT5551 (KMBT5551)

Features

- High Voltage Transistors
- Pb-Free Packages are Available



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	Vсво	180	٧
Collector-emitter voltage	VCEO	160	V
Emitter-base voltage	VEBO	6	V
Collector current-continuous	Ic	0.6	А
Collector Power Dissipation	Pc	300	mW
Junction and storage temperature	TJ, Tstg	-55 to +150	$^{\circ}\!\mathbb{C}$

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	Vсво	Ic = 100uA, I E = 0	180			V
Collector-emitter breakdown voltage *	VCEO	Ic = 1.0 mA, IB = 0	160			V
Emitter-base breakdown voltage	Vево	IE = 10uA, I C = 0	6			V
Collector cutoff current	Ісво	Vcb = 120 V, IE = 0			50	nA
Emitter cutoff current	lево	VEB = 4.0 V, IC = 0			50	nA
		Ic = 1.0 mA, VcE = 5 V	80			
DC current gain *	hfE	Ic = 10 mA, VcE = 5 V	100		300	
		Ic = 50 mA, VcE = 5 V	50			
Collector-emitter saturation voltage *	VCE(sat)	Ic = 50 mA, IB = 5.0 mA			0.5	V
Base-emitter saturation voltage *		Ic = 50 mA, IB = 5.0 mA			1.0	V
Transiston frequency	f⊤	Vce=10V,lc=10mA,f=100MHz	100			MHz

^{*} Pulse Test: Pulse Width = 300 $\,\mu$ s, Duty Cycle=2.0%.

■ Classification of hfe(2)

Туре	MMBT5551	MMBT5551-L	MMBT5551-H	
Range	100-300	100-200	200-300	
Marking	G1			

SMD Type Transistors

MMBT5551 (KMBT5551)

■ Typical Characteristics

