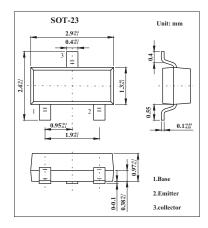
SMD Type Transistors

NPN Transistors KMBT3904(MMBT3904)

■ Features

Epitaxial planar die construction



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	Vсво	60	V
Collector - Emitter Voltage	VCEO	40	V
Emitter - Base Voltage	VEBO	6	V
Collector Current - Continuous	Ic	0.2	А
Collector Power Dissipation	Pc	0.2	W
Junction Temperature	TJ	150	$^{\circ}$ C
Storage Temperature	Tstg	-55 to 150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Тур	Max	Unit	
Collecto- base breakdown voltage	Vсво	Ic= 100 μA, IE=0	60			V	
Collector- emitter breakdown voltage	VCEO	Ic= 1 mA, I _B =0	40			V	
Emitter - base breakdown voltage	VEBO	IE= 10 μ A, IC=0	6			V	
Collector cut-off current	Ісво	Vcb= 60 V , IE=0			0.1	μ А	
Collector cut-off current	Iceo	VCE= 30 V , VBE(off)=3V			50	nA	
Emitter cut-off current	ІЕВО	VEB= 5V , IC=0			0.1	μ Α	
DC current gain	hFE	VcE= 1V, Ic= 10mA	100		400		
		VcE= 1V, Ic= 50mA	60				
Collector-emitter saturation voltage	VCE(sat)	Ic=50 mA, Iв= 5mA			0.3	V	
Base - emitter saturation voltage	VBE(sat)	Ic= 50 mA, Iв= 5mA			0.95	V	
Delay time	td	Vcc=3.0V,VBE=-0.5V			35	no	
Rise time	tr	Ic=10mA,IB1=-IB2=1.0mA			35	ns	
Storage time	ts	Vcc=3.0V,Ic=10mA			200	no	
Fall time	tf	Iв1=-Iв2=1.0mA			50	ns	
Transition frequency	f⊤	VcE= 20V, Ic= 10mA,f=100MHz	250			MHz	

Marking

Marking	1AM
Marking	1/AlVI

SMD Type Transistors

KMBT3904(MMBT3904)

■ Typical Characteristics

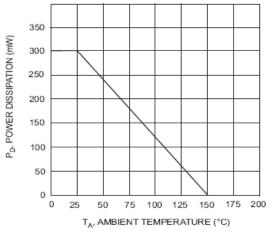


Fig.1 Max Power Dissipation vs Ambient Temperature

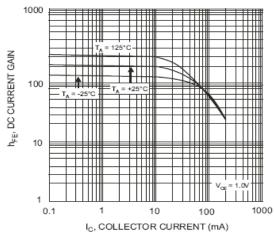


Fig.3 Typical DC Current Gain vs Collector Current

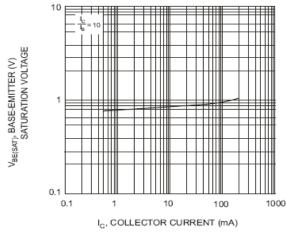


Fig.5 Typical Base-Emitter Saturation Voltage vs.
Collector Current

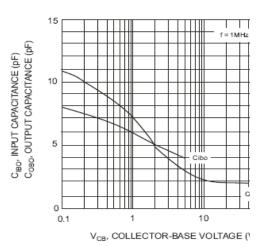


Fig.2 Input and Output Capacitance vs. Collector-Base Voltage

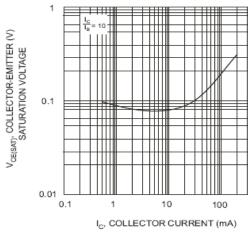


Fig.4 Typical Collector-Emitter Saturation Voltage vs. Collector Current

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by KEXIN manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MJ15024/WS MJ15025/WS BC546/116 BC556/FSC BC557/116 BSW67A HN7G01FU-A(T5L,F,T NJVMJD148T4G NSVMMBT6520LT1G NTE187A NTE195A NTE2302 NTE2330 NTE2353 NTE316 IMX9T110 NTE63 NTE65 C4460 SBC846BLT3G 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA1727TLP 2SA2126-E 2SB1202T-TL-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMC5AT148 2N2369ADCSM 2SB1202S-TL-E 2SC2412KT146S 2SC4618TLN 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E BC557B TTC012(Q) BULD128DT4 JANTX2N3810 Jantx2N5416 US6T6TR KSF350 068071B