

FEATURES

- · Epoxy meets UL-94 V-0 flammability rating
- · Complementary to MMBT3906
- · Power dissipation of 200mW
- · High stability and high Reliability

SOT-23



MECHANICAL DATA

- · Case:SOT-23(TO-236)
- . Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any

Marking:1AM



MAXIMUM RATINGS(Ta=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	VCEO	٧	40
Collector-Base Voltage	Vсво	V	60
Emitter-Base Voltage	Vebo	V	6
Collector Current, Continuous	lc	mA	200
Collector Power Dissipation	Po	mW	200
Operation Junction Temperature	Tı	°C	-55 to +150
Storage Temperature	Тѕтс	°C	-55 to +150
Thermal resistance From junction to ambient	Røja	°C/W	625

ELECTRICAL CHARACTERISTICS(T_A=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V(BR)CEO	٧	Ic=1.0mA,I _B =0	40	555
Collector-Base Breakdown Voltage	V(BR)CBO	V	Ic=10μA,I _E =0	60	222
Emitter-Base Breakdown Voltage	V(BR)EBO	V	IE=10μA,Ic=0	6	
Collector cut-off Current	Ісво	nA	VcB=60V,IE=0	222	100
Collector cut-off Current	Iceo	nA	VcE=20V,IB=0		U7574
Emitter cut-off Current	IEBO	nA	V _{EB} =5V,I _C =0		100
DC Current Gain	hFE(1)		Ic=10mA,VcE=1V	100	300
	hFE(2)		Ic=50mA,VcE=1V	60	(2002)
	hFE(3)		Ic=100mA,VcE=1V	30	(reserv
C !!	V05/+)	V	Ic=10mA,IB=1mA	555	-555
Collector-Emitter Saturation Voltage	VCE(sat)		Ic=50mA,IB=5mA		0.3
	VPE(()	.,	Ic=10mA,IB=1mA	1888	
Base-Emitter Saturation Voltage	VBE(sat)	V	Ic=50mA,IB=5mA		0.95
Output Capacitance	Cob	pF	VcB=6V,f=1.0MHz,IE=0		
Input Capacitance	Cib	pF	VEB=0.5V,f=1.0MHz,Ic=0		
Current Gain-Bandwidth Product	fτ	MHz	Ic=10mA,VcE=20V f=100MHz 300		
Noise Figure	NF	dB	Vc=5.0V,f=1.0kHz, Ic=100µA, Rs=1.0K		

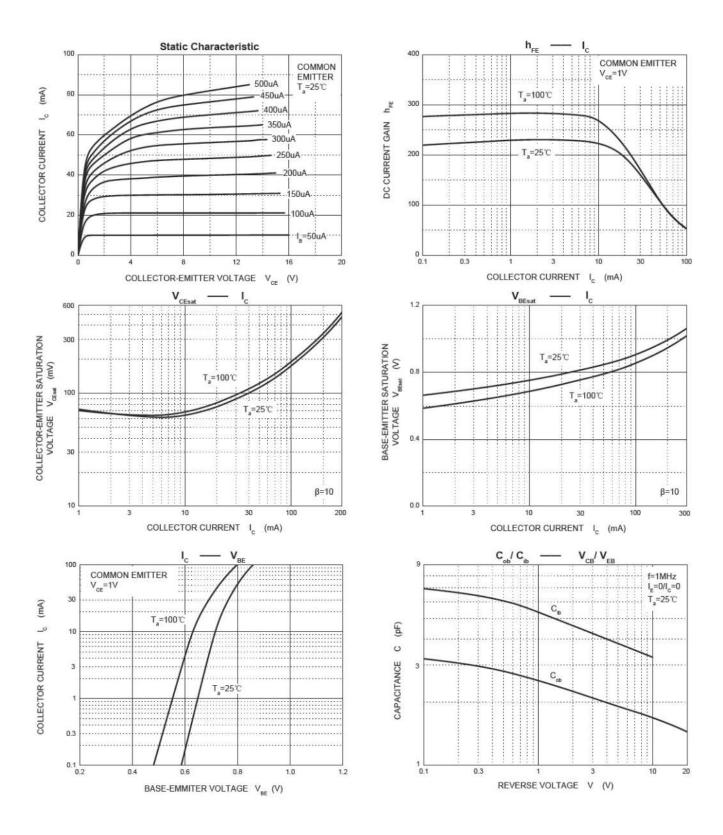
CLASSIFICATION OF h FE(1)

hre	100-300			
Rank	L	Н		
Range	100-200	200-300		

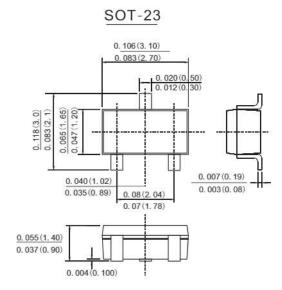
AVAILABALE PACK INFORMATION

	Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
nec.	MMBT3904	T/R	Ф180	3K	30K	120K

Characteristics(Typical)

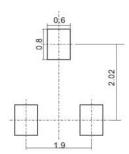


Outline Dimensions



Dimensions in inches and (millimetrers)

Suggested pad layout



Dimensions in millimetrers

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