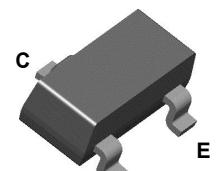
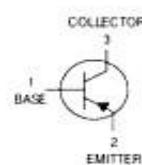


Silicon Epitaxial Planar Transistor(PNP)



SOT-23 Mark: 2F



Features

Epitaxial planar die construction.

Complementary NPN Type available(MMBT2222A)

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 60	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _c	Collector Current -Continuous	-600	mA
P _c	Collector Dissipation	250	mW
T _{j,T stg}	Junction and Storage Temperature	-55~150	°C

Electrical Characteristics

T_A = 25°C unless otherwise noted

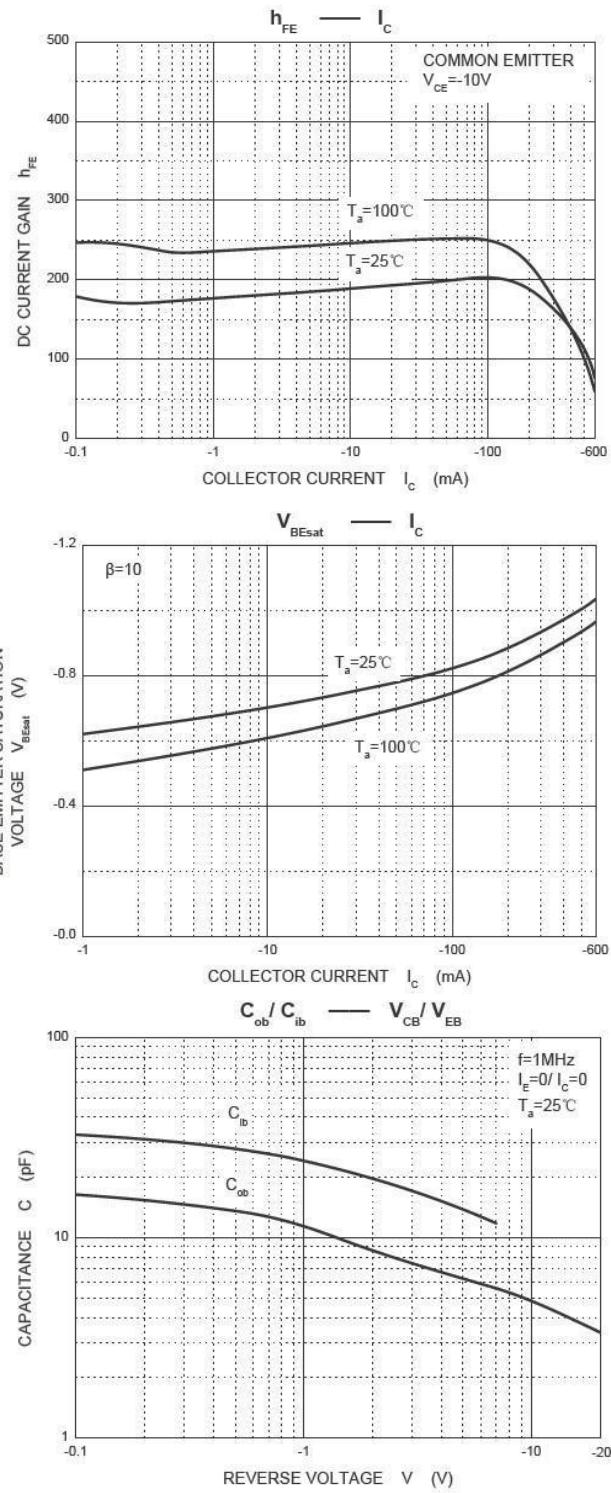
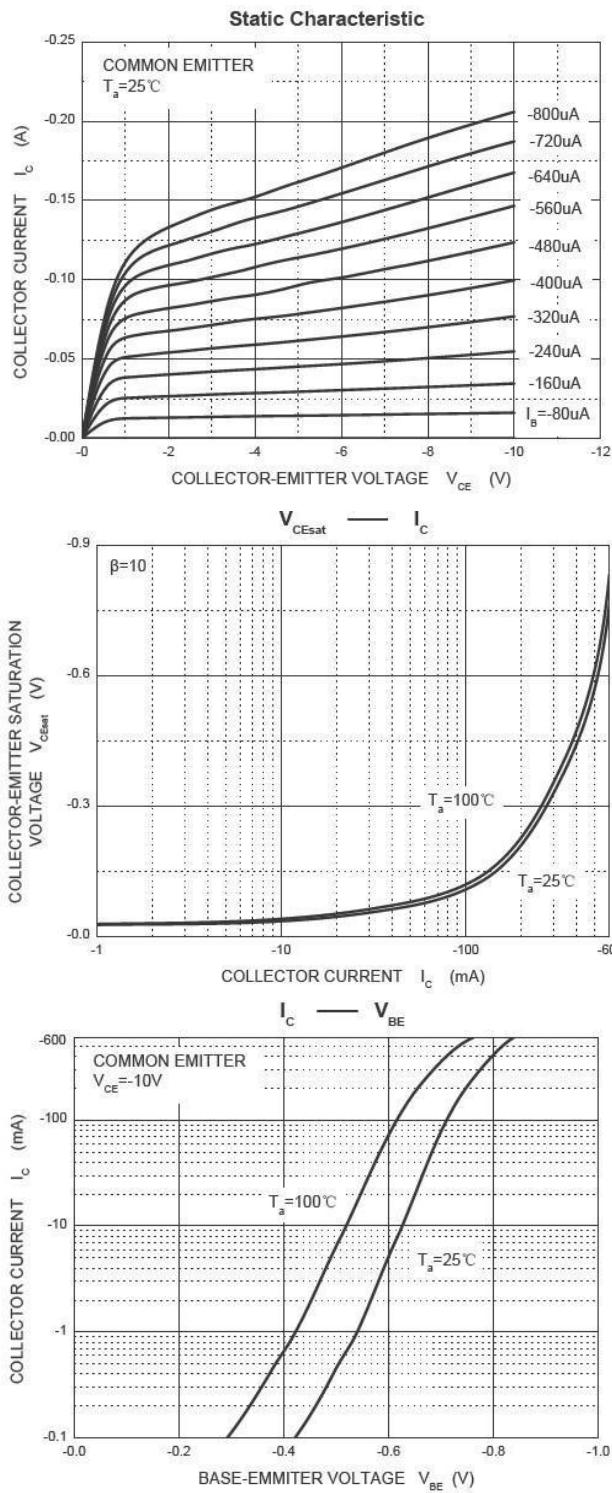
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _c =-10 μ A,I _e =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _c =-10mA,I _b =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _e =-10 μ A,I _c =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V,I _e =0			- 20	nA
Collector cut-off current	I _{CEX}	V _{CE} =-30V,V _{BE(off)} =-0.5V			- 50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _c =0			- 10	nA
DC current gain	h _{FE}	V _{CE} =-10V,I _c =-10mA	100			
		V _{CE} =-10V,I _c =-150mA	100		300	
		V _{CE} =-10V,I _c =-500mA	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _c = - 150 mA I _b = - 15 A			- 0.4	V
Base-emitter voltage	V _{BE}	I _c = - 150 mA I _b = - 15 A			- 1.3	V
Transition frequency	f _T	V _{CE} =20V, I _c = 50mA	200			MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, I _e =0 f=1MHz			80	PF

Electrical Characteristics

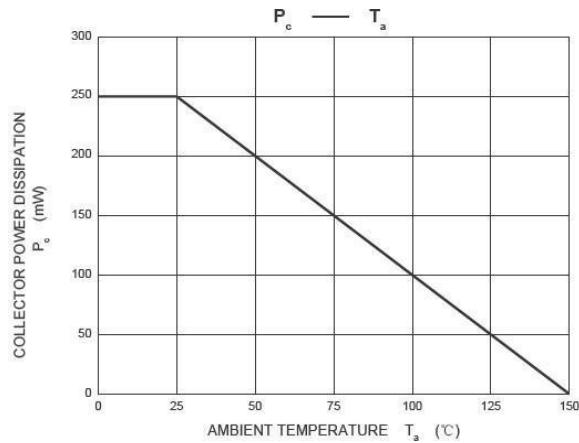
T_A = 25°C unless otherwise noted

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Turn-on Time	t _{on}	V _{CE} = -30V I _C = -150mA I _{B1} = -15mA			45	ns
Delay Time	t _d				10	ns
Rise Time	t _r				40	ns
Turn-off Time	t _{off}	V _{CE} = -6V I _C = -150mA I _{B1} = I _{B2} = -15mA			100	ns
Storage Time	t _s				80	ns
Fall Time	t _f				30	ns

Typical Characteristics

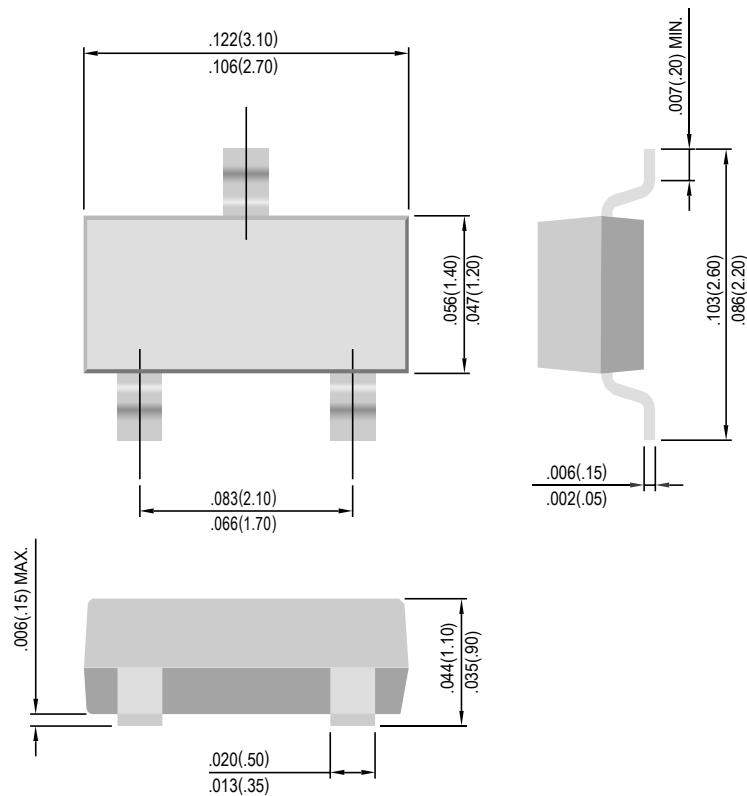


Typical characteristics



OUTLINE DRAWING

SOT-23



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 Jinkaisheng manufacturer:

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MMBT-2369-TR](#) [BC546/116](#) [BC557/116](#) [BSW67A](#) [NJVMJD148T4G](#) [NTE123AP-10](#) [NTE153MCP](#) [NTE16](#)
[NTE195A](#) [NTE92](#) [C4460](#) [2N4401-A](#) [2N6728](#) [2SA1419T-TD-H](#) [2SA2126-E](#) [2SB1204S-TL-E](#) [2SC2712S-GR,LF](#) [2SC5488A-TL-H](#)
[2SD2150T100R](#) [SP000011176](#) [2N2907A](#) [2N3904-NS](#) [2N5769](#) [2SC2412KT146S](#) [2SD1816S-TL-E](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#)
[MJE340](#) [US6T6TR](#) [NJK0281DG](#) [732314D](#) [CPH3121-TL-E](#) [CPH6021-TL-H](#) [873787E](#) [IMZ2AT108](#) [UMX21NTR](#) [MCH6102-TL-E](#)
[NJK0302DG](#) [2N3583](#) [30A02MH-TL-E](#) [NSV40301MZ4T1G](#) [NTE13](#) [NTE26](#) [NTE282](#) [NTE323](#) [NTE350](#) [NTE81](#) [STX83003-AP](#)