

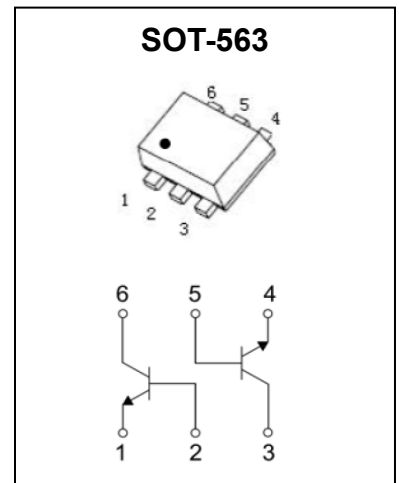


EMX1 Dual Transistor(NPN)

Feature

- Low Voltage
- High Current

Marking:X1



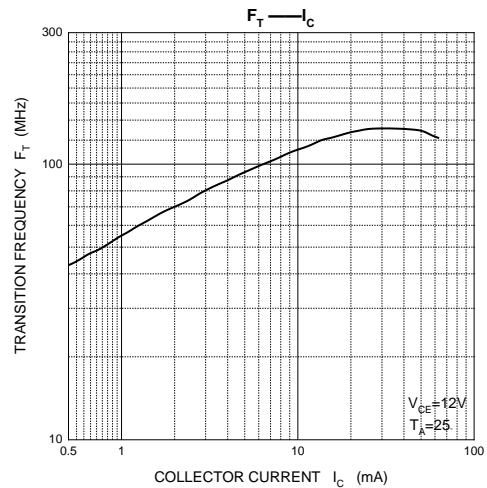
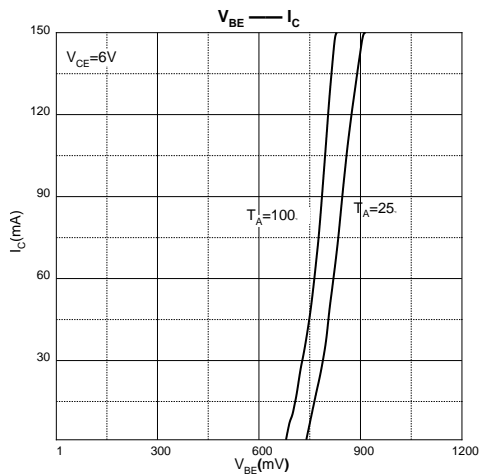
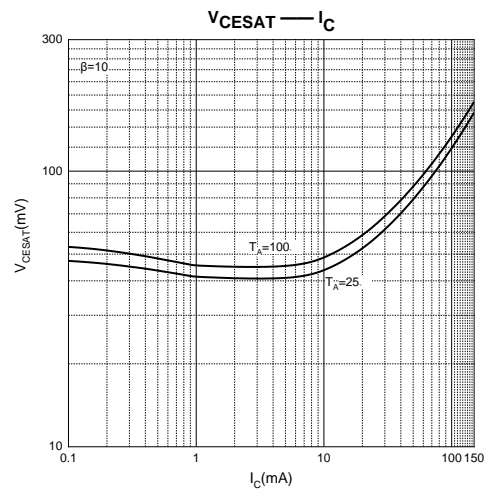
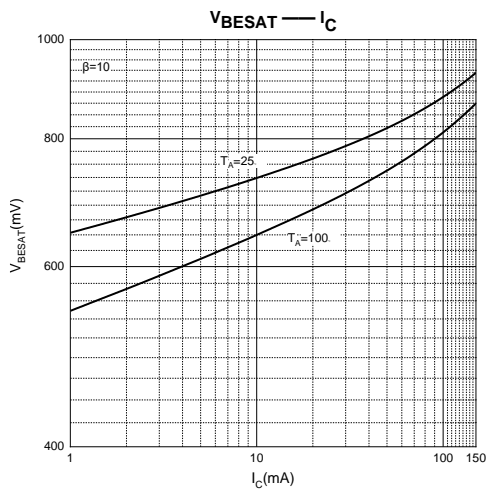
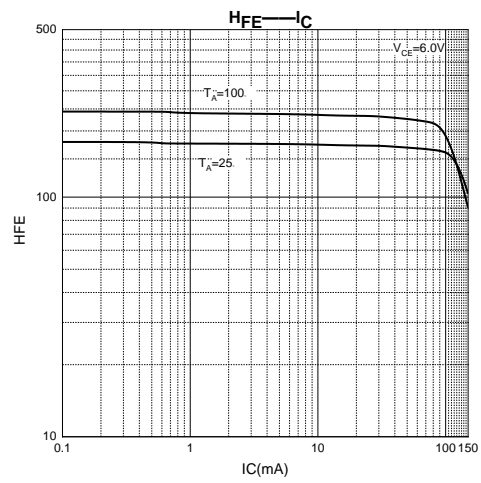
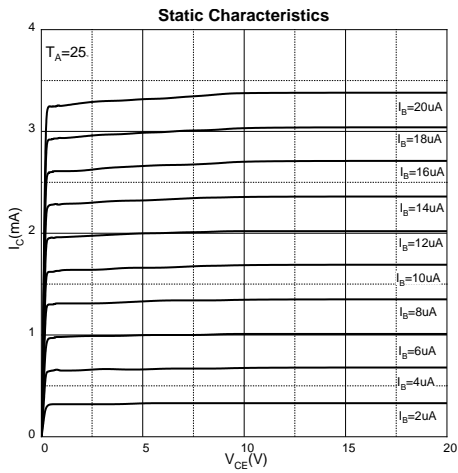
MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

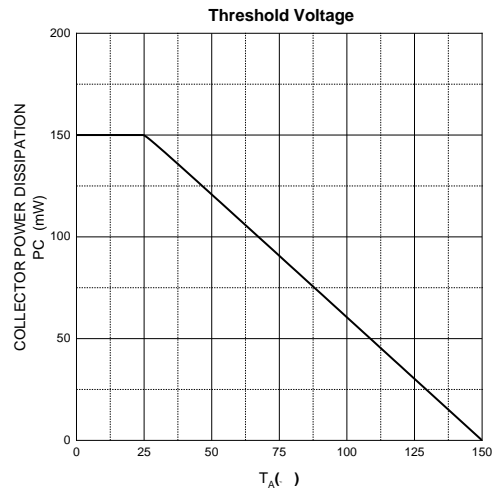
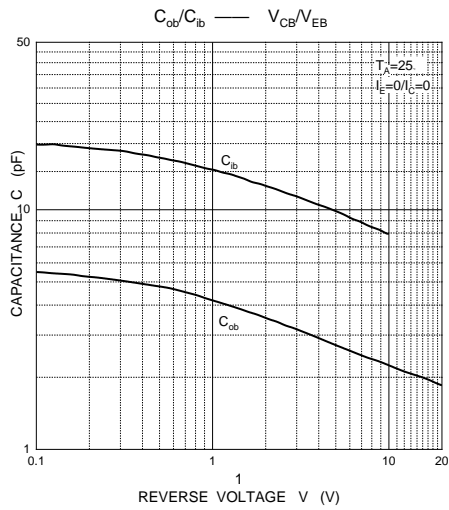
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CB0}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	7	V
Collector Current	I _c	0.15	A
Power Dissipation	P _d	0.15	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55~ +150	°C

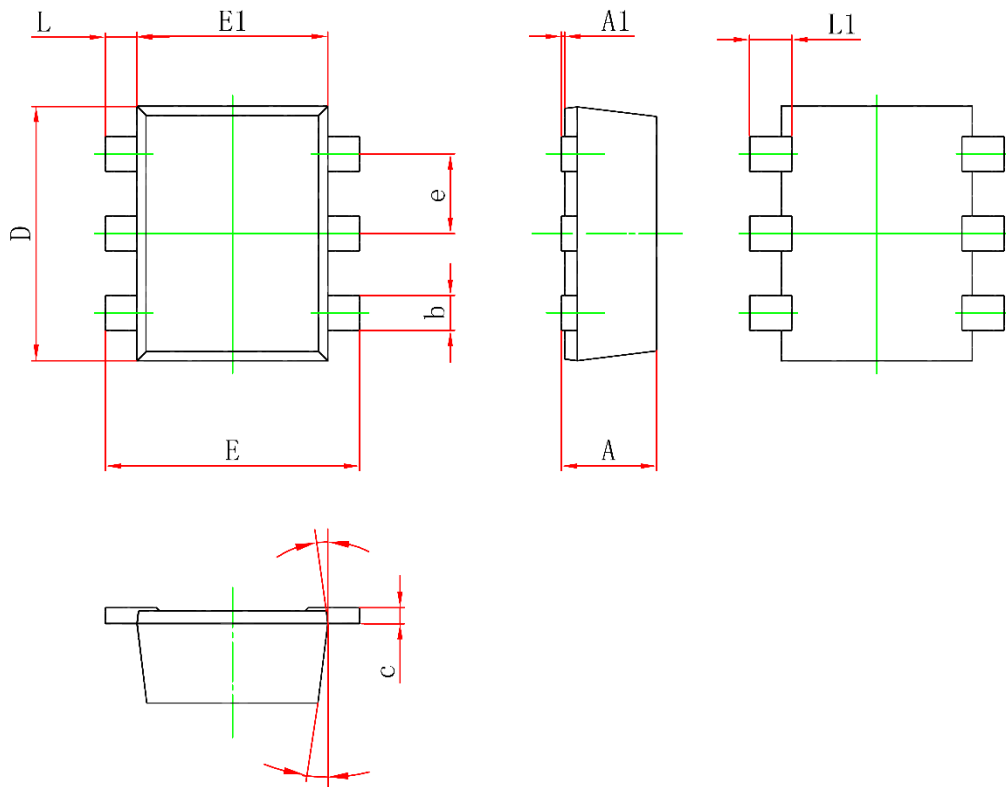
ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _c = 50μA, I _E = 0	60			V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _c = 1mA, I _B = 0	50			V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = 50μA, I _c = 0	7			V
Base Cut-Off Current	I _{CBO}	V _{CB} = 60V, I _E = 0V			100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = 7V, I _c = 0			100	nA
Dc Current Gain	h _{FE}	V _{CE} = 6V, I _c = 1mA	120		560	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _c = 50mA, I _B = 5mA			0.4	V
Transition Frequency	f _T	V _{CE} = 12V, I _c = 2mA, f = 100MHz		180		MHZ
Collector Capacitance	C _{ob}	V _{CB} = 12V, f = 1MHz		2.0	3.5	pF

Typical Characteristics





SOT-563 Package Outline Dimensions


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.500	0.600	0.020	0.024
A1	0.000	0.050	0.000	0.002
e	0.450	0.550	0.018	0.022
c	0.080	0.180	0.003	0.007
D	1.500	1.700	0.059	0.067
b	0.170	0.270	0.007	0.011
E1	1.100	1.300	0.043	0.051
E	1.500	1.700	0.059	0.067
L	0.100	0.300	0.004	0.012
L1	0.200	0.400	0.008	0.016
θ	7°		7°	

Attention:

- GreenPower Electronics reserves the right to improve product design function and reliability without notice.
- Any and all semiconductor products have certain probability to fail or malfunction, which may result in personal injury, death or property damage. Customer are solely responsible for providing adequate safe measures when design their systems.
- GreenPower Electronics products belong to consumer electronics or other civilian electronic products.