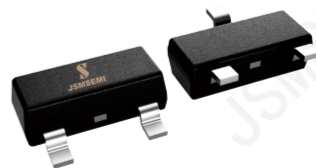


Features

- ◆ Complementary Type NPN Transistor
MMBTA06,215-JSM
- ◆ General Purpose Amplifier Applications



SOT-23

MAXIMUM RATINGS(Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	-80	V
Collector-Emitter Voltage	VCEO	-80	V
Emitter-Base Voltage	VEBO	-4	V
Collect or Current	IC	-500	mA
Collector Power Dissipation	PC	225	mW
Thermal Resistance From Junction To Ambient	RθJA	555	℃/W
Junction Temperature	Tj	150	℃
Storage Temperature	Tstg	-55~+150	℃

Ordering Information

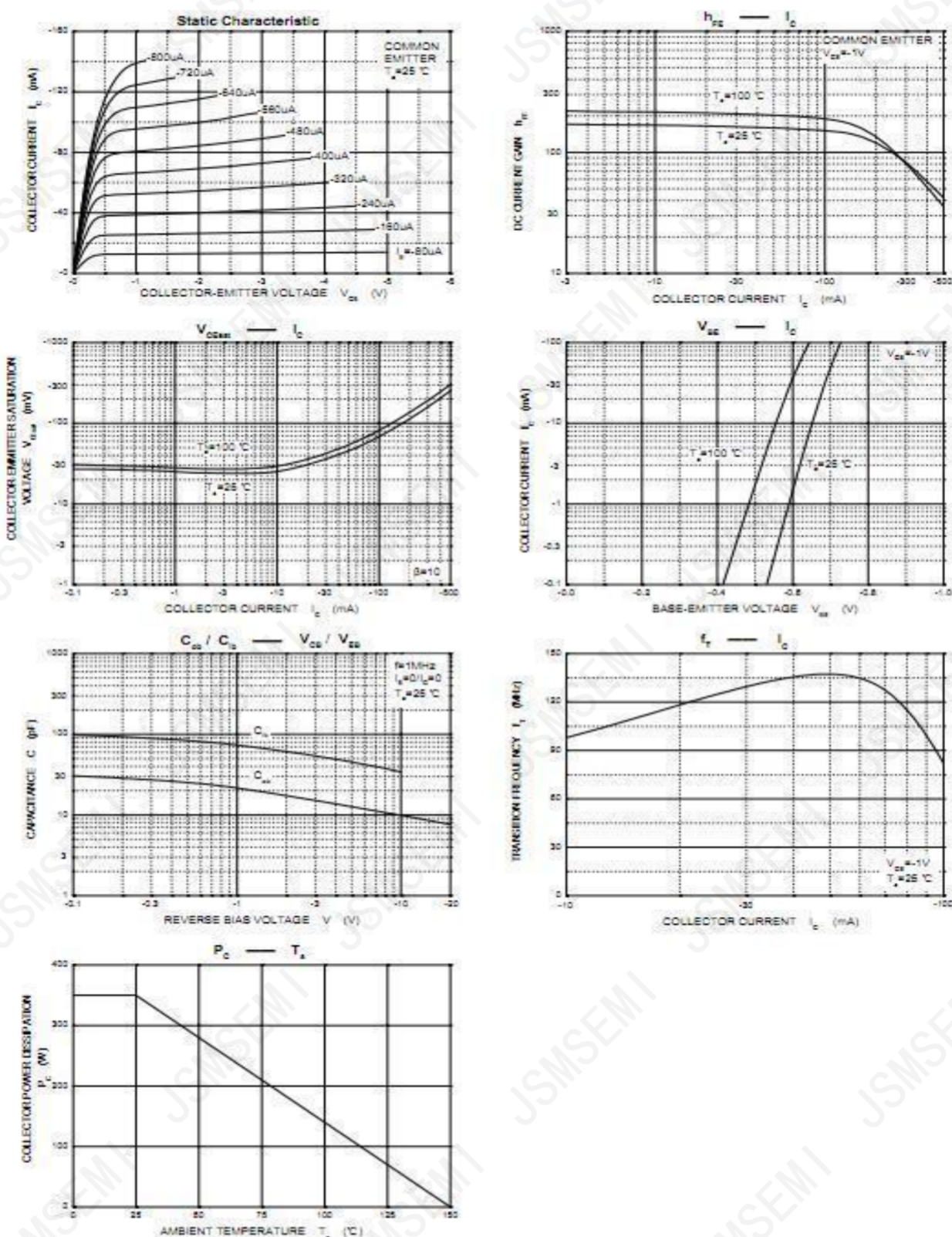
Order number	Package	Operation Temperature Range	MSL Grade	Ship, Quantity	Green
PMBTA56,215-JSM	SOT-23	-55~+150	3	T&R,3000	Rohs

ELECTRICAL CHARACTERISTIC (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=-100μA, IE=0	-80			V
Collector-emitter breakdown voltage	V(BR)CEO	IC=-1mA, IB=0	-80			V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100μA, IC=0	-4			V
Collector cut-off current	ICBO	VCE=-80V, IE=0			-0.1	μA
Collector cut-off current	ICEO	VCE=-60V, IB=0			-1	μA
Emitter cut-off current	IEBO	VEB=-3V, IC=0			-0.1	μA
DC current gain	hFE	VCE=-1V, IC=-10mA	100		400	
	hFE	VCE=-1V, IC=-100mA	100			
Collector-emitter saturation voltage	VCE(sat)	IC=-100mA, IB=-10mA			-0.25	V
Base-emitter saturation voltage	VBE(sat)	IC=-100mA, IB=-10mA			-1.2	V
Transition frequency	fT	VCE=-1V, IC=-100mA f=100MHz	50			MHz

CLASSIFICATION OF hFE

Rank	L	H
Range	80-120	120-250

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS


Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

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