

SOT-23 Plastic-Encapsulate Transistors

Features

• Complementary to M8550.

• 200mW; Power Dissipation of 200mW

• High Stability and High Reliability

Mechanical Data

• SOT-23 Small Outline Plastic Package

• Epoxy UL: 94V-0

• Mounting Position: Any





Marking: Y11

SOT-23

Pin definition



1. BASE 2. EMITTER 3. COLLECTOR

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	Value	Unit	
Collector-Base Voltage	V_{CBO}	40	V	
Collector-Emitter Voltage	V_{CEO}	25	V	
Emitter -Base Voltage	V_{EBO}	6	V	
Collector Current-Continuous	Ic	800	mA	
Collector Power Dissipation	Pc	200	mW	
Operating junction temperature range	TJ	150	°C	
Storage temperature range	T _{STG}	-55-+150	°C	
Thermal Resistance from Junction to Ambient	RөJA	625	°C/W	

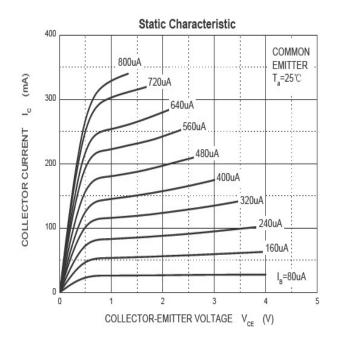
Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Limits		Unit	
		rest Conditions	Min	Max	Ullit	
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40			
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	25		V	
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	6			
Collector cut-off current	ICBO	VCB=35V, IE=0		100		
Collector cut-off current	ICEO	VCE=20V, IB=0		100	nA	
DC current gain	hFE(1)	VCE=1V, IC=5mA	45			
	hFE(2)	VCE=1V, IC=100mA	80	400		
	hFE(3)	VCE=1V, IC=800mA	40			
Collector-emitter saturation voltage	VCE(sat)	IC=800mA, IB=80mA		0.50	V	
Collector-emitter saturation voltage	VBE(sat)	IC=800mA, IB=80mA		1.20] v	
Transition frequency	fT	VCE=6V, IC=20mA,f=30MHz	150		MHz	

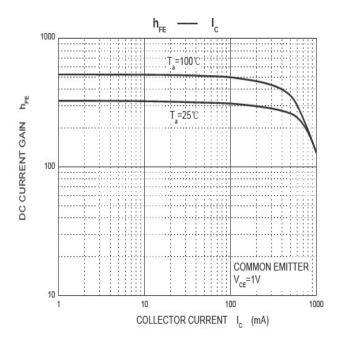
Classification OF hFE(2)			
RANK	L	Н	
RANGE	80-300	300-400	

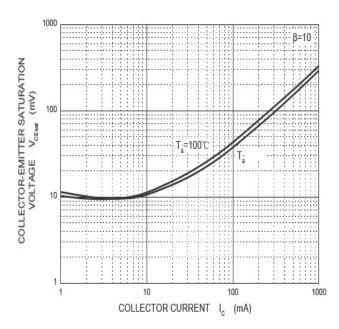


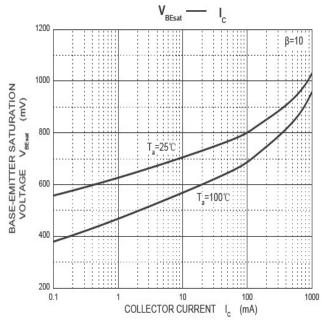
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





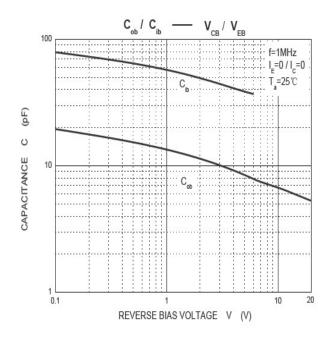


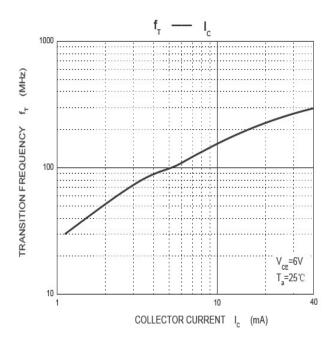


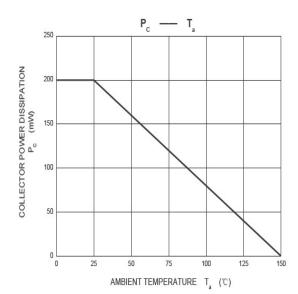


Ratings and Characteristics Curves

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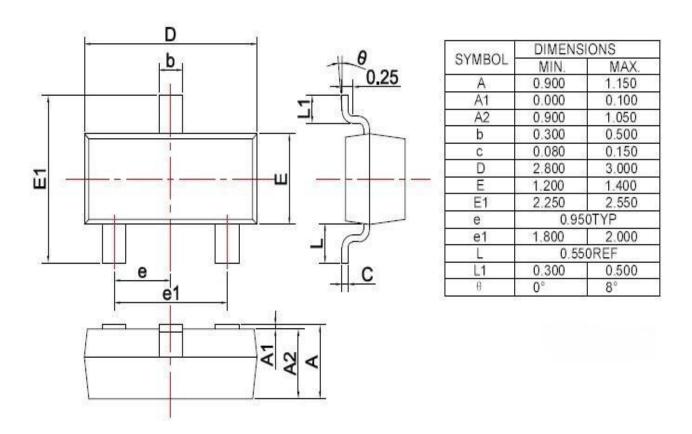






Package Outline Dimensions

millimeters



Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.06.13	First issue



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