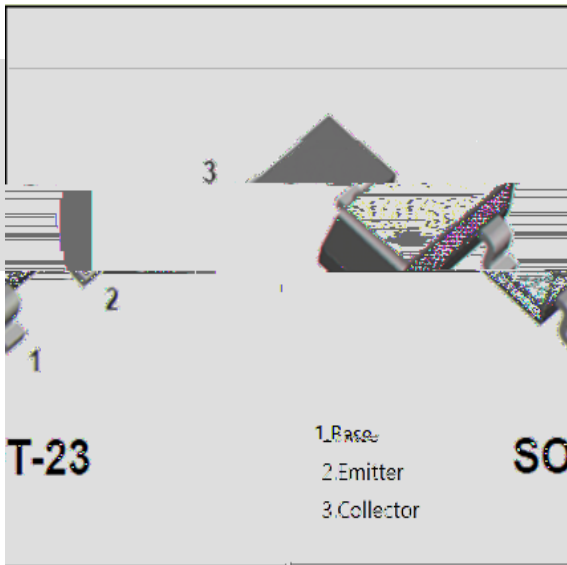




PNP Silicon High Voltage Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- PNP

Mechanical Data

- **Package:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** 2D

■Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CBO}	V	$I_C = -100\mu A, I_E = 0$	-300
Collector-Emitter Voltage	V_{CEO}	V	$I_C = -1mA, I_B = 0$	-300
Emitter-Base Voltage	V_{EBO}	V	$I_E = -100\mu A, I_C = 0$	-5
Collector Current	I_C	mA		-300
Collector Power Dissipation	P_C	mW		300
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	/W		417
Operation Junction Temperature	T_J			-55 to +150

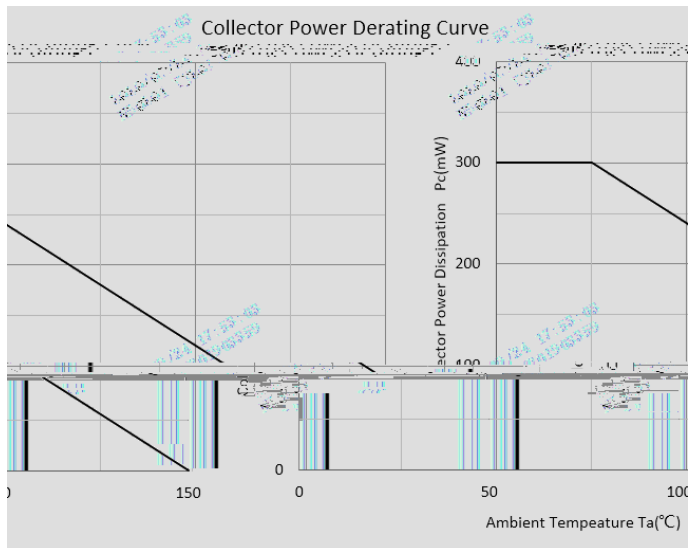
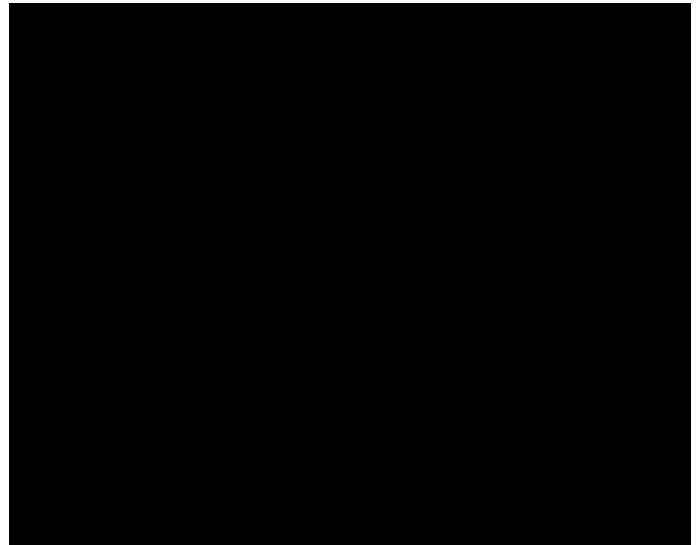
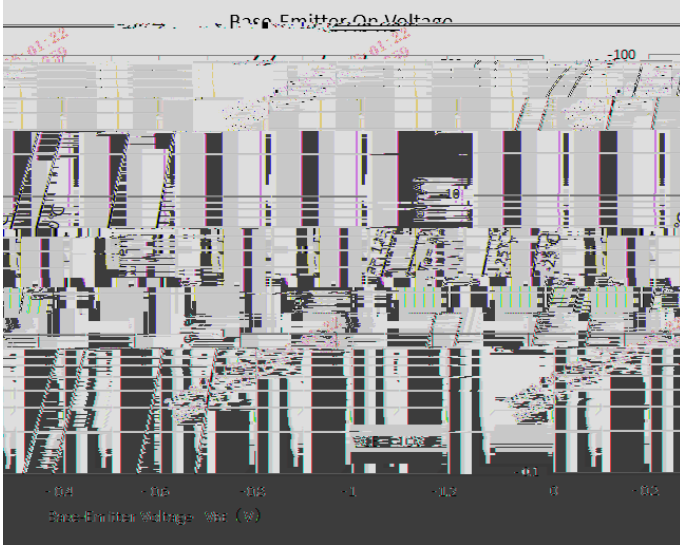
Item	Symbol	Unit	Co	β	Example)
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PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM		QUANTITY(pcs)	DELIVERY MODE
MMBTA92	F2	Approximate 0.009	3000	30000	120000	7" reel

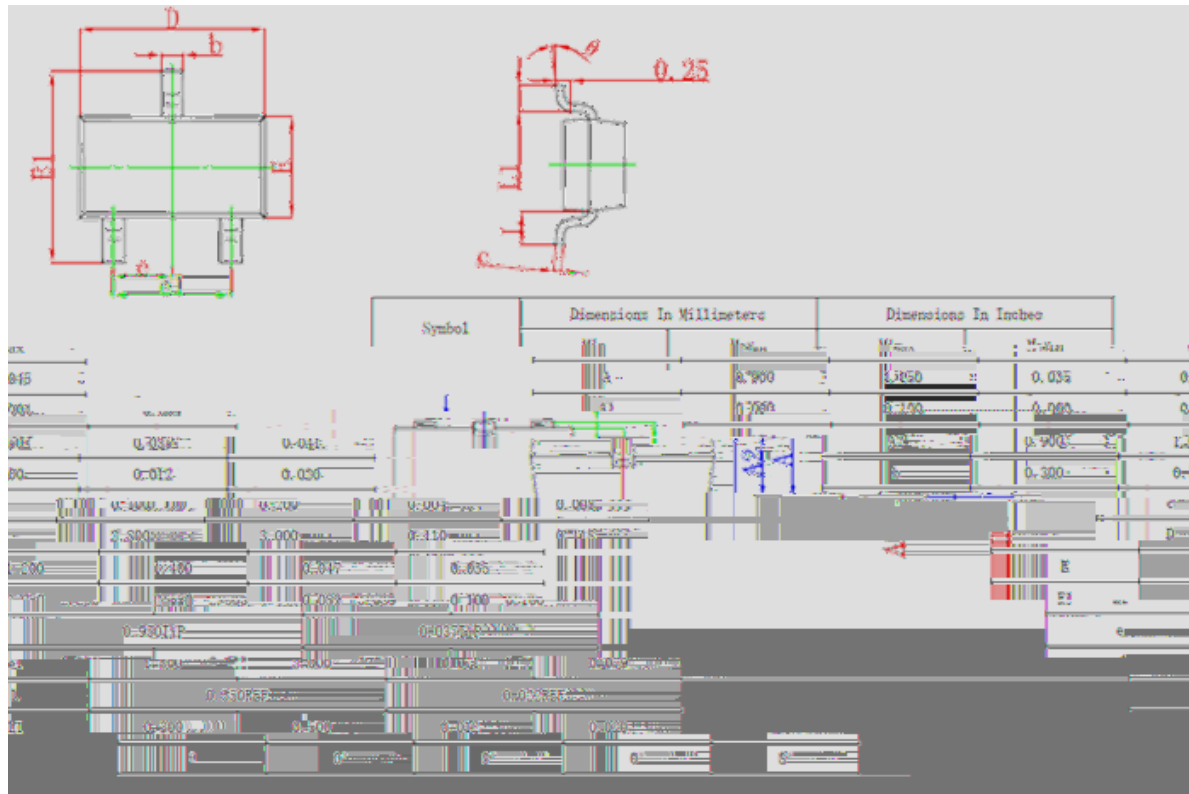


■Electrical Characteristics $T_a=25$ Unless otherwise specified

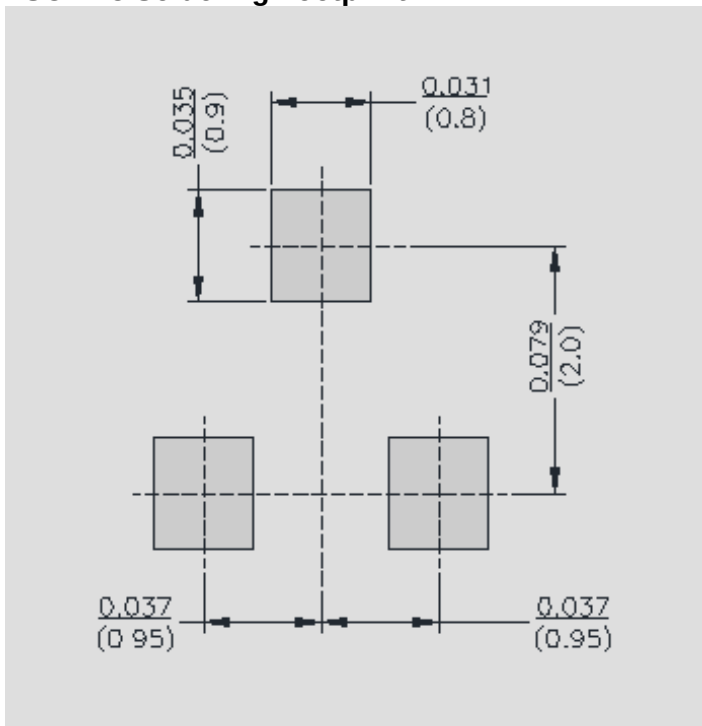
Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-300	
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C=-1mA, I_B=0$	-300	
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-5	
Collector-base cut-off current	I_{CBO}	nA	$V_{CB}=-200V, I_E=0$		-250
Emitter-base cut-off current	I_{EBO}	nA	$V_{EB}=-5V, I_C=0$		-100
DC current gain	h_{FE}		$V_{CE}=-10V, I_C=-1mA$	60	
	h_{FE}		$V_{CE}=-10V, I_C=-10mA$	100	200
	h_{FE}		$V_{CE}=-10V, I_C=-30mA$	60	
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=-20mA, I_B=-2mA$		-0.2
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	$I_C=-20mA, I_B=-2mA$		-0.9



■SOT-23 Package Outline Dimensions



■SOT-23 Soldering Footprint





Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other sa