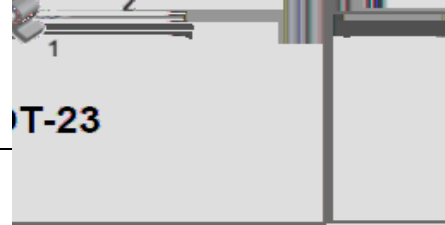




# PMMT491A



## NPN Transistor

### Features

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

### Mechanical Data

- Package:** SOT-23
- Molding compound meets UL 94 V-0 Flammability rating per J-STD-002 and JESD22-B102
- Marking:** 9A

### Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Value
Collector-Base Voltage	$V_{CBO}$	V	40
Collector-Emitter Voltage	$V_{CEO}$	V	40
Emitter-Base Voltage	$V_{EBO}$	V	5
Collector Current	$I_c$	A	1
Collector Power Dissipation	$P_c$	mW	300
Junction Temperature	$T_j$		150
Storage Temperature	$T_{stg}$		-55 to +150

### Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)
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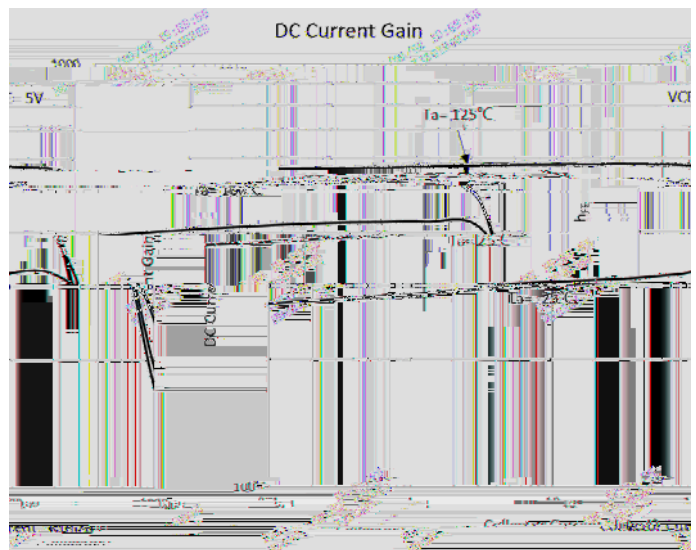
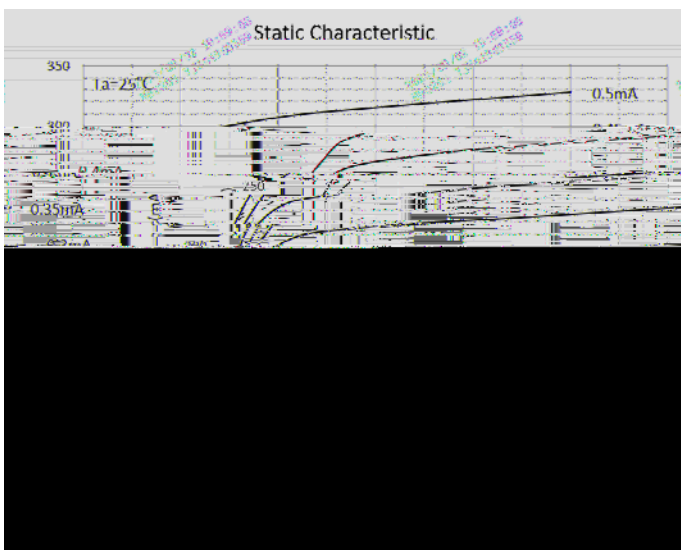


# PMMT491A

## Electrical Characteristics (Ta=25 unless otherwise noted)

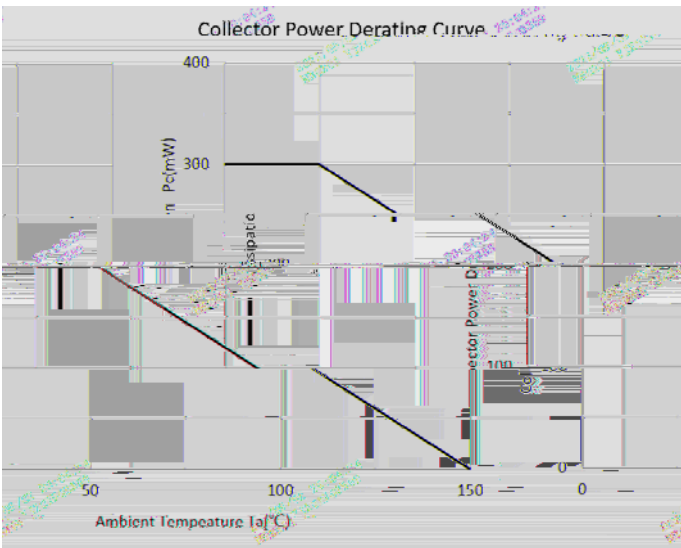
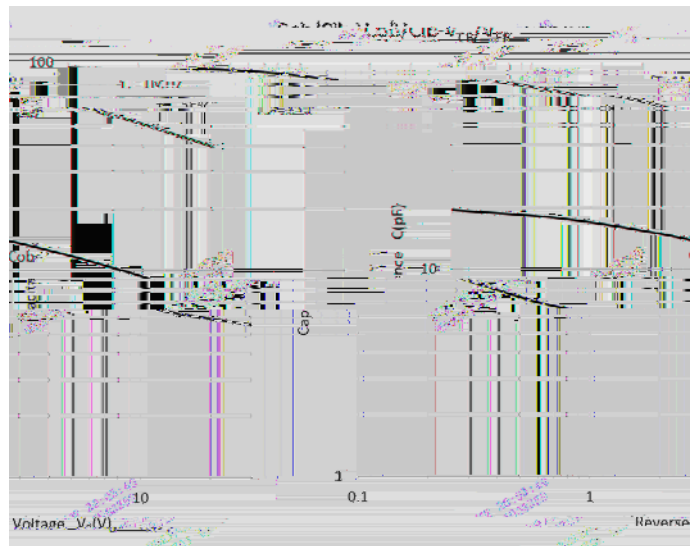
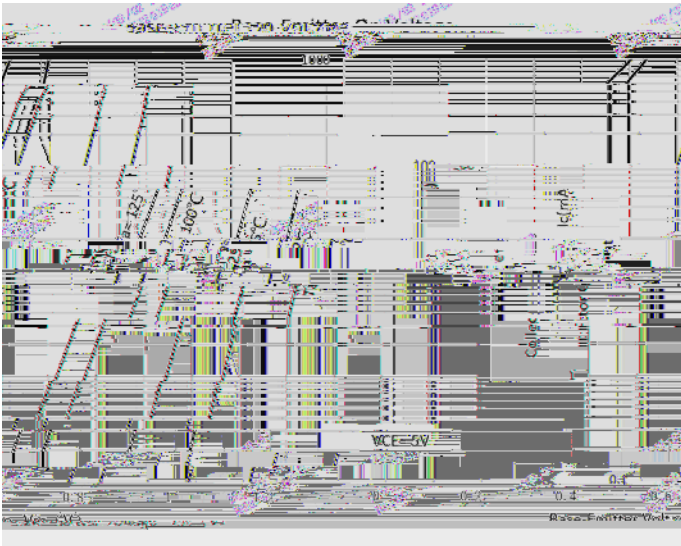
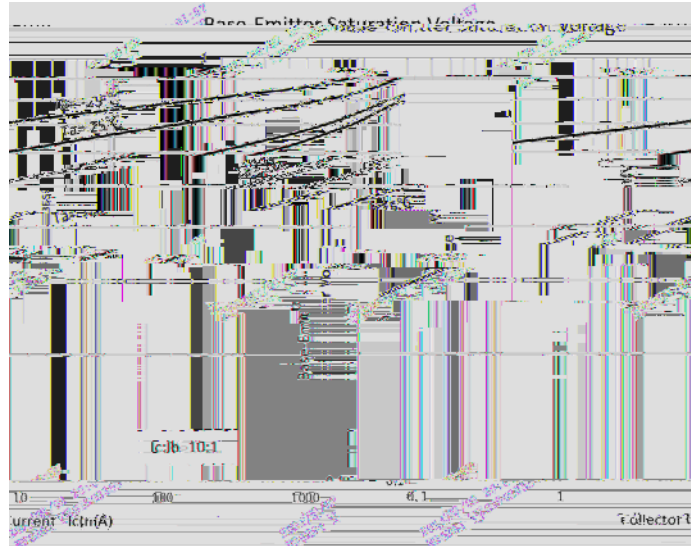
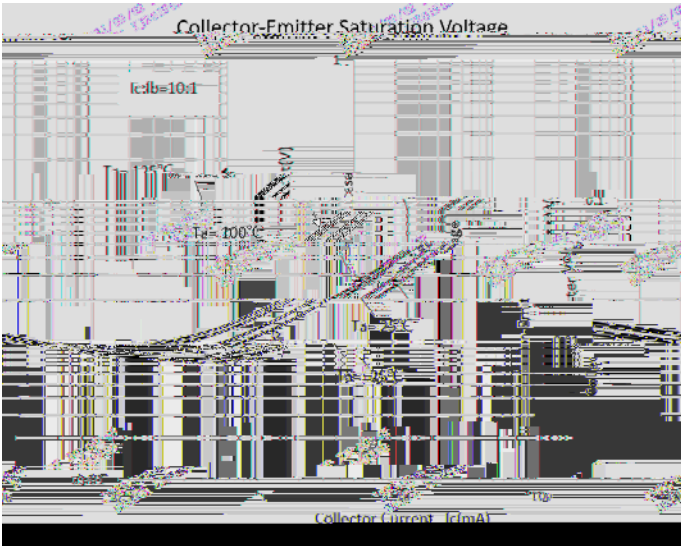
Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{CBO}$	V	$I_C=10\mu A, I_E=0$	40		
Collector-emitter breakdown voltage	$V_{CEO}$	V	$I_C=1mA, I_B=0$	40		
Emitter-base breakdown voltage	$V_{EBO}$	V	$I_E=10\mu A, I_C=0$	5		
Collector-emitter cut-off current	$I_{CEO}$	nA	$V_{CE}=30V, I_B=0$			100
Collector-base cut-off current	$I_{CBO}$	nA	$V_{CB}=30V, I_E=0$			100
Emitter-base cut-off current	$I_{EBO}$	nA	$V_{EB}=5V, I_C=0$			100
DC current gain	$h_{FE}$		$V_{CE}=5V, I_C=1mA$	300		
	$h_{FE}$		$V_{CE}=5V, I_C=500mA$	300		900
	$h_{FE}$		$V_{CE}=5V, I_C=1A$	200		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=100mA, I_B=1mA$			0.2
	$V_{CE(sat)}$	V	$I_C=500mA, I_B=50mA$			0.3
	$V_{CE(sat)}$	V	$I_C=1A, I_B=100mA$			0.5
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C=1A, I_B=100mA$			1.2
Base-emitter voltage	$V_{BE}$	V	$V_{CE}=5V, I_C=1A$			1.1
Collector-base output capacitance	$C_{ob}$	pF	$V_{CB}=10V, f=1MHz$			10
Transition frequency	$f_T$	MHz	$V_{CE}=10V, I_C=50mA, f=100MHz$	150		

## Characteristics (Typical)





# PMMT491A



3007 \$

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v627 3DFNDJH 2XWOLQH 'LPHQVLRQV

v627 6ROGHULQJ )RRWSULQW

