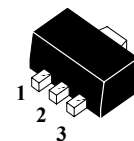


### PNP Epitaxial Planar Transistors

**Pb** Lead(Pb)-Free

SOT-89



1. BASE  
2. COLLECTOR  
3. EMITTER

#### Features:

- \* Low Collector Saturation Voltage
- \* High Spwvd Switching
- \* For Complementary Use With NPN Type WTM2222A

#### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ )

Rating	Symbol	Limits	Unit
Collector-Base Voltage	$V_{CBO}$	-60	V
Collector-Emitter Voltage	$V_{CEO}$	-60	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-0.6	A
Collector Power Dissipation	$P_D$	1.2	W
Junction Temperature	$T_j$	+150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^{\circ}\text{C}$

#### Device Marking

WTM2907A = 2907A , p2F

#### ELECTRICAL CHARACTERISTICS( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage $I_C=-10\mu\text{A}, I_E=0$	$BV_{CBO}$	-60	-	-	V
Collector-Emitter Breakdown Voltage $I_C=-10\text{mA}, I_B=0$	$BV_{CEO}$	-60	-	-	V
Emitter-Base Breakdown Voltage $I_E=-10\mu\text{A}, I_C=0$	$BV_{EBO}$	-5	-	-	V
Collector Cutoff Current $V_{CE}=-50\text{V}, I_E=0$	$I_{CBO}$	-	-	-10	nA
Collector Cutoff Current $V_{CE}=-30\text{V}, V_{BE}=-0.5\text{V}$	$I_{CEX}$	-	-	-50	nA

**WTM2907A** **WEITRON****ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C Unless otherwise noted)**

Characteristic	Symbol	Min	Typ	Max	Unit
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**ON CHARACTERISTICS<sup>(1)</sup>**

DC Current Gain V <sub>CE</sub> =-10V, I <sub>C</sub> =-0.1mA	h <sub>FE1</sub>	75	-	-	
V <sub>CE</sub> =-10V, I <sub>C</sub> =-1.0mA	h <sub>FE2</sub>	100	-	-	
V <sub>CE</sub> =-10V, I <sub>C</sub> =-10mA	h <sub>FE3</sub>	100	-	-	
V <sub>CE</sub> =-10V, I <sub>C</sub> =-150mA	h <sub>FE4</sub>	100	-	300	-
V <sub>CE</sub> =-10V, I <sub>C</sub> =-500mA	h <sub>FE5</sub>	50	-	-	
Collector-Emitter Saturation Voltage I <sub>C</sub> =-150mA, I <sub>B</sub> =-15mA	V <sub>CE(sat)1</sub>	-	-0.2	-0.4	V
I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA	V <sub>CE(sat)2</sub>	-	-0.5	-1.6	V
Base-Emitter Saturation Voltage I <sub>C</sub> =-150mA, I <sub>B</sub> =-15mA	V <sub>BE(sat)1</sub>	-	-	-1.3	V
I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA	V <sub>BE(sat)2</sub>	-	-	-2.6	mV

1. Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

**DYNAMIC CHARACTERISTICS**

Transition Frequency V <sub>CE</sub> =-20V, I <sub>C</sub> =-50mA, f=100MHz	f <sub>T</sub>	200	-	-	MHz
Output Capacitance V <sub>CE</sub> =-10V, f=1MHz	C <sub>ob</sub>	-	-	8.0	pF

# WTM2907A



## ELECTRICAL CHARACTERISTIC CURVES

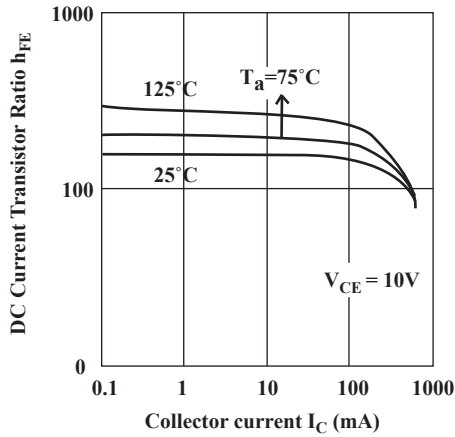


Fig.1 Current Gain & Collector Current

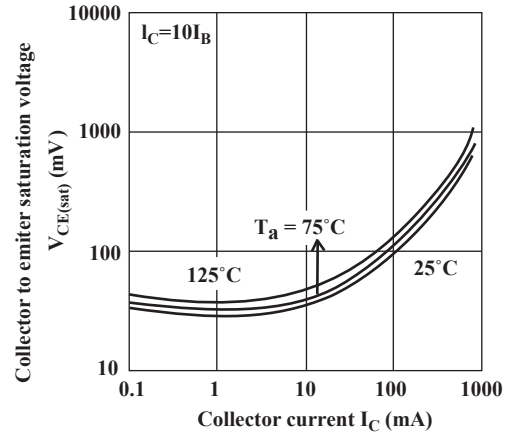


Fig.2 Saturation Voltage & Collector Current

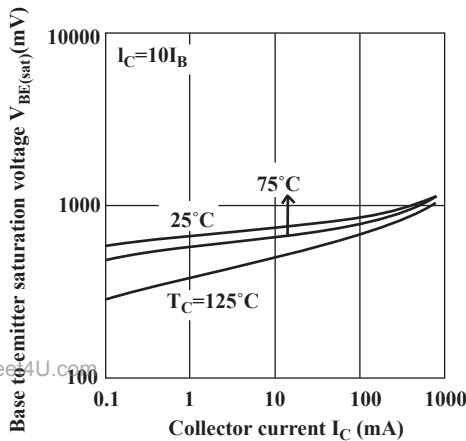


Fig.3 Saturation Voltage & Collector Current

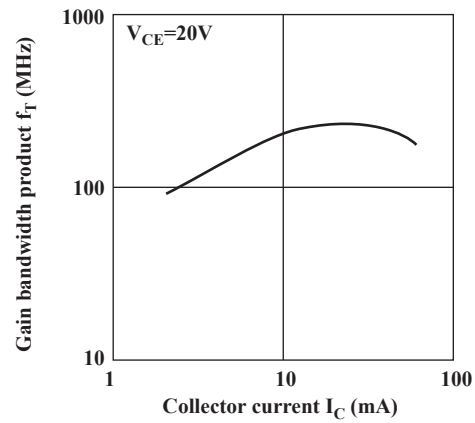


Fig.4 Gain Bandwidth Product & Collector Current

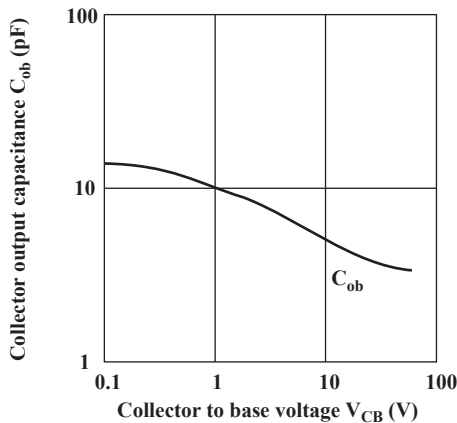


Fig.5 Capacitance & Collector to Base Voltage

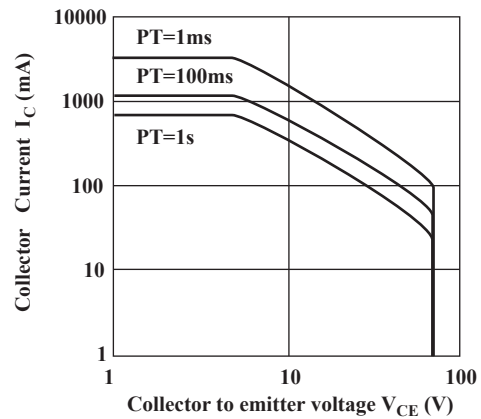
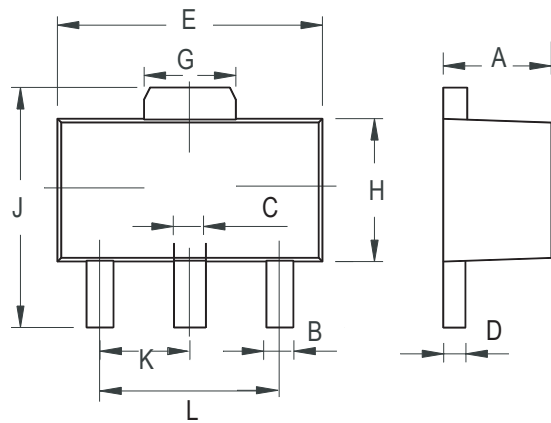


Fig.6 Safe Operating Area

**WTM2907A****WEITRON****SOT-89 Outline Dimensions**

unit:mm



<b>SOT-89</b>		
<b>Dim</b>	<b>Min</b>	<b>Max</b>
<b>A</b>	1.400	1.600
<b>B</b>	0.320	0.520
<b>C</b>	0.360	0.560
<b>D</b>	0.350	0.440
<b>E</b>	4.400	4.600
<b>G</b>	1.400	1.800
<b>H</b>	2.300	2.600
<b>J</b>	3.940	4.250
<b>K</b>	1.500TYP	
<b>L</b>	2.900	3.100