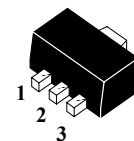


PNP Epitaxial Planar Transistors

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°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	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Device Marking

WTM2907A = 2907A , p2F

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage I _C =-10μA, I _E =0	BV _{CBO}	-60	-	-	V
Collector-Emitter Breakdown Voltage I _C =-10mA, I _B =0	BV _{CEO}	-60	-	-	V
Emitter-Base Breakdown Voltage I _E =-10μA, I _C =0	BV _{EBO}	-5	-	-	V
Collector Cutoff Current V _{CE} =-50V, I _E =0	I _{CBO}	-	-	-10	nA
Collector Cutoff Current V _{CE} =-30V, V _{BE} =-0.5V	I _{CEX}	-	-	-50	nA

WTM2907A**WEITRON****ELECTRICAL CHARACTERISTICS (T_A=25°C Unless otherwise noted)**

Characteristic	Symbol	Min	Typ	Max	Unit
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ON CHARACTERISTICS⁽¹⁾

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

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

DYNAMIC CHARACTERISTICS

Transition Frequency V _{CE} =-20V, I _C =-50mA, f=100MHz	f _T	200	-	-	MHz
Output Capacitance V _{CE} =-10V, f=1MHz	C _{ob}	-	-	8.0	pF

WTM2907A



ELECTRICAL CHARACTERISTIC CURVES

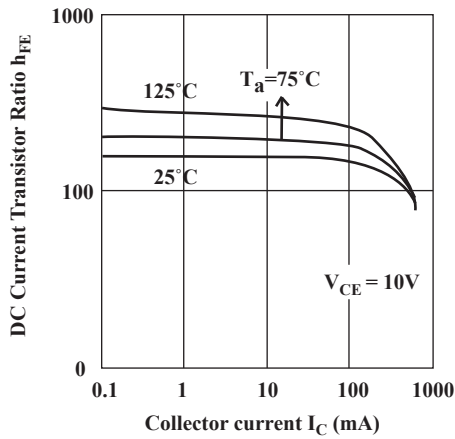


Fig.1 Current Gain & Collector Current

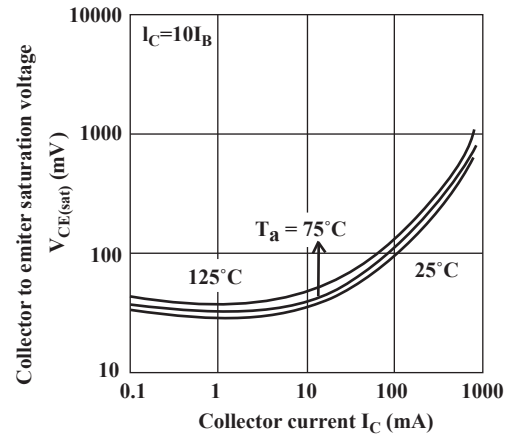


Fig.2 Saturation Voltage & Collector Current

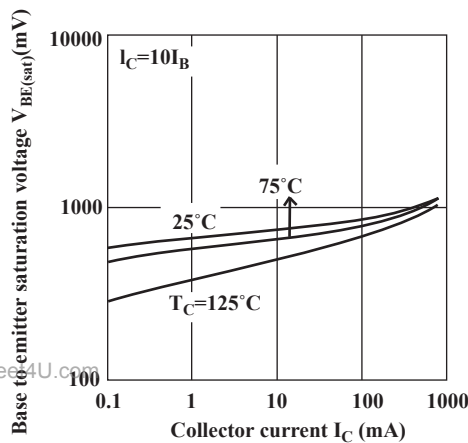


Fig.3 Saturation Voltage & Collector Current

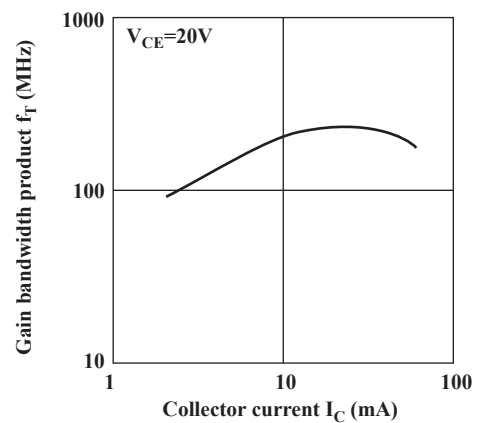


Fig.4 Gain Bandwidth Product & Collector Current

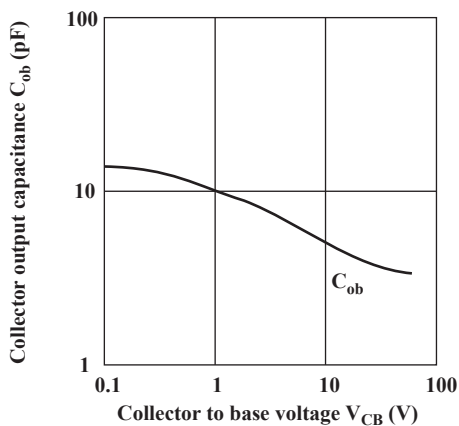


Fig.5 Capacitance & Collector to Base Voltage

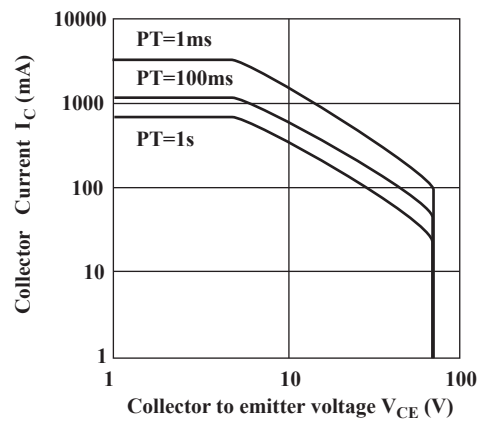
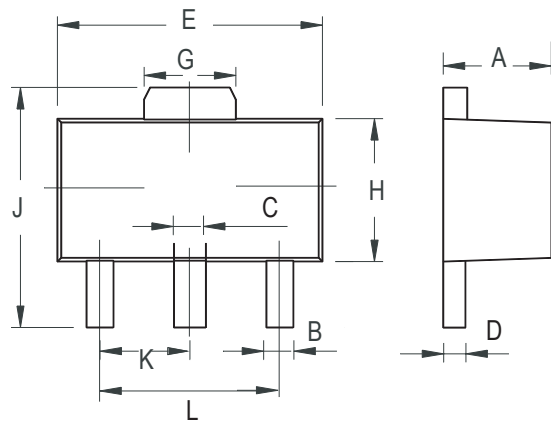


Fig.6 Safe Operating Area

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

unit:mm



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