



**THE DATASHEET OF
FZT2907ATA**



FZT2907 FZT2907A

SOT223 PNP SILICON PLAIN SWITCHING TRANSISTOR

ISSUE 4 – JUNE 1996

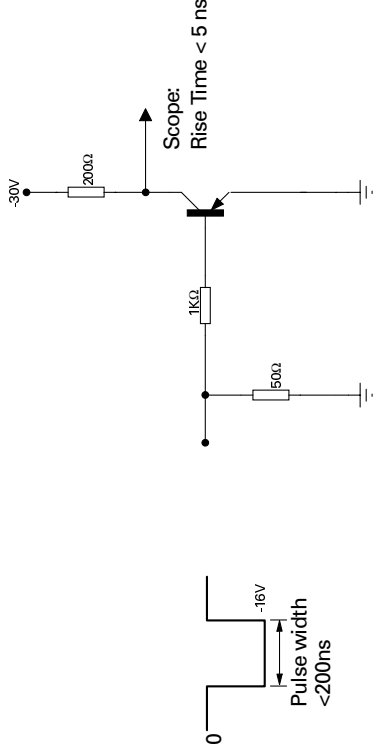
- FEATURES
- * 60 Volt V_{CE0}
 - * Fast switching

PARTMARKING DETAIL – FZT2907 – FZT2907A

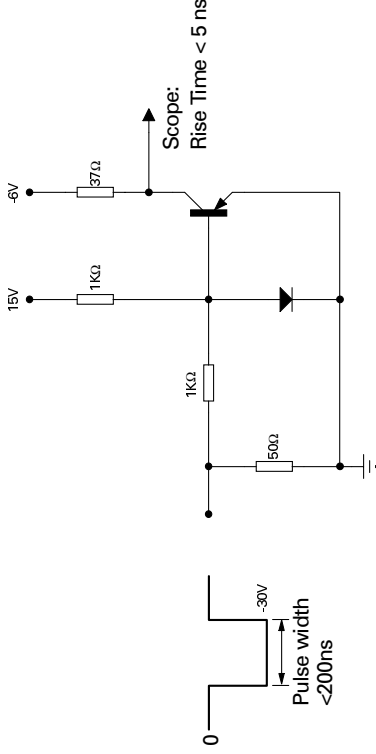
SWITCHING CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ unless otherwise stated).

PARAMETER	SYMBOL	FMMT2907		FMMT2907A		UNIT	CONDITIONS.
		MIN.	MAX.	MIN.	MAX.		
Output Capacitance	C_{obo}	8		8		pF	$V_{CE} = -10\text{V}, I_E = 0,$ $f = 100\text{KHz}$
Input Capacitance	C_{ibo}	30		30		pF	$V_{BE} = -2\text{V}, I_C = 0$ $f = 100\text{KHz}$
Turn On Time	t_{on}	50		50		ns	$V_{CE} = -30\text{V}$ $I_C = 150\text{mA}, I_{B1} = 15\text{mA}$ (See Turn On Circuit)
Turn Off Time	t_{off}	110		110		ns	$V_{CE} = 6\text{V}, I_C = 150\text{mA}$ $I_{B1} = I_{B2} = 15\text{mA}$ (See Turn Off Circuit)

TURN ON TIME – TEST CIRCUIT



TURN OFF TIME – TEST CIRCUIT



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ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	FZT	FZT
			MIN.
Collector-Base Voltage	$V_{(BR)CBO}$	-40	
Collector-Emitter Voltage	$V_{(BR)CEO}$	-60	
Emitter-Base Voltage	$V_{(BR)EBO}$	-5	
Continuous Collector Current	I_{CEX}		
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	I_{CBO}		
Operating and Storage Temperature Range	I_B		
	$V_{CE(sat)}$		
	$V_{BE(sat)}$		
	h_{FE}	35	50
	Current Transfer Ratio	75	100
		30	30
	f_T	200	

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	FZT	FZT
			MIN.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-60	
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	
Collector-Emitter Cut-Off Current	I_{CEX}		
Collector Cut-Off Current	I_{CBO}		
Base Cut-Off Current	I_B		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		
Static Forward Current Transfer Ratio	h_{FE}	35	50
		75	100
		30	30
Transition Frequency	f_T	200	

*Measured under pulsed conditions. Pulse

FZT2907 FZT2907A

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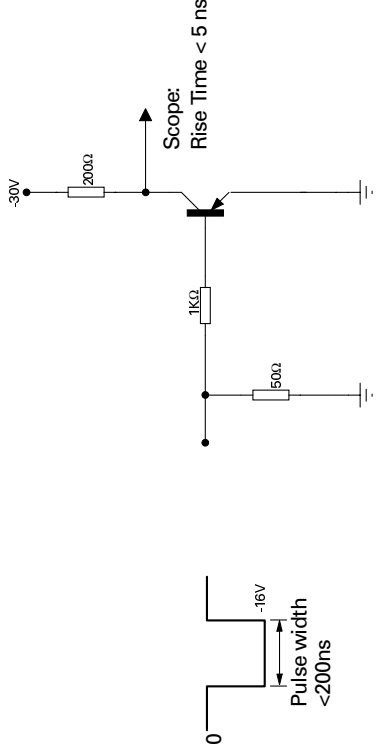
- FEATURES
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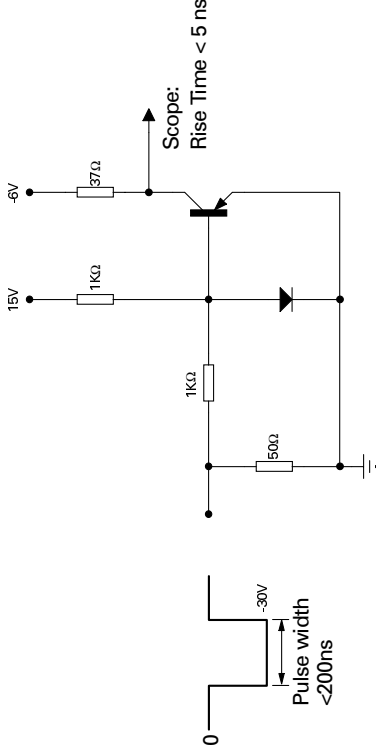
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Turn On Time	t_{on}	50		50		ns	$V_{CE} = -30\text{V}$ $I_C = 150\text{mA}$, $I_{B1} = 15\text{mA}$ (See Turn On Circuit)
Turn Off Time	t_{off}	110		110		ns	$V_{CE} = 6\text{V}$, $I_C = 150\text{mA}$ $I_{B1} = I_{B2} = 15\text{mA}$ (See Turn Off Circuit)

TURN ON TIME – TEST CIRCUIT



TURN OFF TIME – TEST CIRCUIT



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ABSOLUTE MAXIMUM RATINGS

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Collector Cut-Off Current	I_{CBO}		
Base Cut-Off Current	I_B		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		
Static Forward Current Transfer Ratio	h_{FE}	35	50
		75	100
		30	30
Transition Frequency	f_T	200	

*Measured under pulsed conditions. Pulse

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