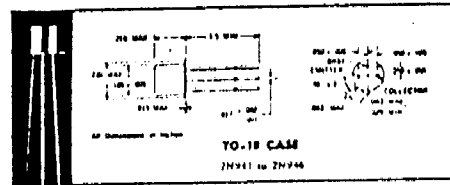
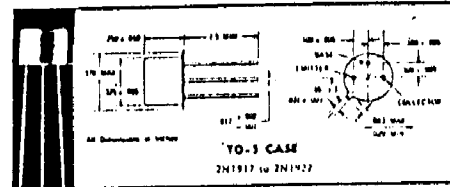


SWITCHING SILICON EPITAXIAL JUNCTION PNP TRANSISTORS	2N941 — 2N1917 2N942 — 2N1918 2N943 — 2N1919 2N944 — 2N1920 2N945 — 2N1921 2N946 — 2N1922
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- LOW AND HIGH LEVEL CHOPPING
- LOW JUNCTION CAPACITANCE



ELECTRICAL DATA ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	2N941/942 2N1917/1918	2N943/944 2N1919/1920	2N945 2N1921	2N946 2N1922	UNITS
Collector to Emitter Voltage	$V_{CE(sat)}$	+8	+18	-50	-80	V
Collector to Base Voltage	$V_{CB(sat)}$	-75	+40	-50	-80	V
Emitter to Base Voltage	$V_{EB(sat)}$	-75	+40	-50	-80	V
Collector Current	I_C	50mA				
Power Dissipation (free air)	P_D	750mW				
Junction Temp. (Oper. & Store)	T_J	-65°C to +175°C				
Lead Temp. (1/16" x 1/32" from Case)	T_L	240°C for 10 sec.				
Derating Factor (free air)	D_r	1.6mW/°C				

ELECTRICAL CHARACTERISTICS: $T_A = 25^\circ\text{C}$ (UNLESS OTHERWISE STATED)

PARAMETER	SYMBOL	Case: TO-18 Case: TO-5 CONDITION	2N941 2N1917		2N942 2N1918		2N943 2N1919		2N944 2N1920		2N945 2N1921		2N946 2N1922		UNITS
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
Collector-Base Leakage Current	I_{CBO}	$V_{CB} = -4.5V$ $I_E = 0$	-	2.5	-	2.5	-	-	-	-	-	-	-	-	nA
Collector-Base Leakage Current	I_{CBO}	$V_{CB} = -4.5V$ $I_E = 0$, Temp: +65°C	-	50	-	50	-	-	-	-	-	-	-	-	nA
Emitter-Base Leakage Current	I_{EBO}	$V_{EB} = -4.5V$ $I_C = 0$	-	2.5	-	2.5	-	-	-	-	-	-	-	-	nA
Emitter-Collector Inverse Leakage Current	I_{ECI}	$V_{CB} = -10V$ $V_{EB} = -15V$	-	-	-	-	-	1.5	-	2.5	-	10.0	-	10.0	nA
Emitter Offset Current	I_{EO}	$V_{CB} = -1.5V$	-	1.0	-	3.0	-	1.0	-	1.5	-	2.0	-	2.0	nA
Emitter Offset Voltage	V_{EO}	$I_E = -250\mu A$ $I_C = 0$	-	1.0	-	3.0	-	2.0	-	3.0	-	4.0	-	4.0	mV
Collector Saturation Voltage	$V_{CE(sat)}$	$I_E = -500\mu A$ $I_C = -20\mu A$	-	-	-	-	-	3.0	-	4.0	-	5.0	-	5.0	mV
A.C. Current Gain	β_{AC}	$V_{CB} = -6V$ $I_E = 1.0mA$ $f = 1KC$	25	-	25	-	-	-	-	-	-	-	-	-	-
High Frequency Current Gain	β_{HF}	$V_{CB} = -6V$ $I_E = 1.0mA$ $f = 1MC$	16	-	16	-	1.0	-	1.0	-	1.0	-	1.0	-	-
Collector to Base Capacitance	C_{CB}	$V_{CB} = -6V$ $I_E = -1.0mA$ $f = 1MC$	-	14	-	14	-	14	-	14	-	14	-	14	pF

