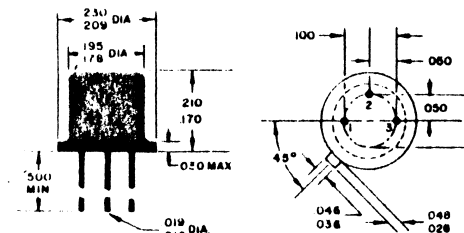


2N718

NPN TRANSISTOR SILICON

MECHANICAL DATA

CASE: JEDEC TO-18
TERMINAL CONNECTIONS:
Lead 1 Emitter Lead 2 Base
Lead 3 Collector (Electrically connected to case)



ELECTRICAL DATA

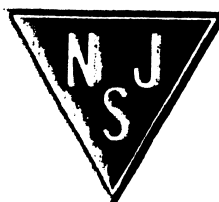
ABSOLUTE MAXIMUM RATINGS:

Collector to Base Voltage V_{CBO}	60 volts
Collector to Emitter Voltage ($R_{BE} \leq 10\Omega$) V_{CE}	40 volts
Emitter to Base Voltage V_{EB}	5 volts
Total Device Dissipation	
@ Case Temperature 25° C	1.5 watts
@ Case Temperature 100° C	0.75 watts
@ Free Air Temperature 25° C	0.4 watts
Junction Temperature (Operating)	-65° C to +200° C
Storage Temperature	-65° C to +300° C

ELECTRICAL CHARACTERISTICS: @25° C (unless otherwise noted)

PARAMETER	SYM.	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Collector to Base Breakdown Voltage	BV_{CBO}	$I_C = 100 \mu A$	60			volts
Collector to Emitter Breakdown Voltage	BV_{CE}	$R_{BE} \leq 10\Omega, I_C = 100 mA$	40			volts
Emitter to Base Breakdown Voltage	BV_{EB}	$I_E = 1 mA$	5			volts
Collector Cutoff Current	I_{CBO1}	$V_{CB} = 30 V$			1.0	μA
Collector Cutoff Current	I_{CBO2}	$V_{CB} = 30 V, T_A = +150^\circ C$			100	μA
DC Current Gain	h_{FE}	$V_{CE} = 10 V, I_C = 150 mA$				
		2N717	20		60	
		2N718	40		120	
Collector to Emitter Saturation Voltage	$V_{CE}(sat)$	$I_C = 150 mA, I_B = 15 mA$			1.5	volts
Base to Emitter Saturation Voltage	$V_{BE}(sat)$	$I_C = 150 mA, I_B = 15 mA$			1.3	volts
High Frequency Small Signal Current Gain	h_{fe}	$V_{CE} = 10 V, I_C = 50 mA, f = 20 mc$				
		2N717	2.0			
		2N718	2.5			
Collector Capacitance	C_{ob}	$V_{CB} = 10 V, I_C = 0 mA$			35	pf
Input Capacitance	C_{ib}	$V_{EB} = 0.5 V, I_C = 0 mA$			80	pf

▲ Measured with 300 μ Sec, 2% duty cycle pulse



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