

2N6098

SILICON NPN - POWER TRANSISTOR

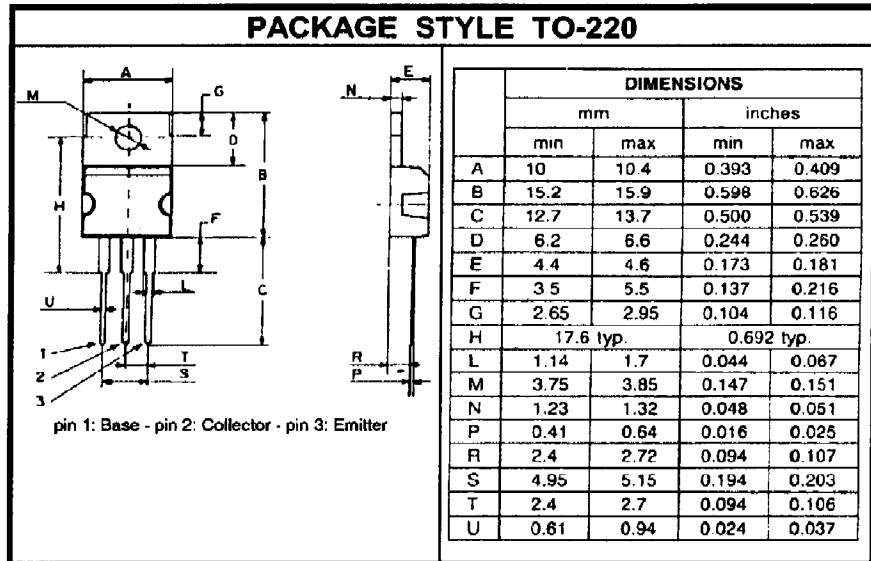
DESCRIPTION:

The **2N6098** is an NPN Silicon Power Transistor for General Purpose Switching and Amplifier Applications.

MAXIMUM RATINGS

I_C	10 A
I_B	4.0 A
V_{CE}	60 V
P_{DISS}	75 W @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+150^\circ C$
T_{STG}	$-65^\circ C$ to $+150^\circ C$
θ_{JC}	1.67 $^\circ C/W$

PACKAGE STYLE TO-220



CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{CEO}	$I_C = 200$ mA	60			V
V_{CER}	$I_C = 200$ mA $R_{BE} = 100 \Omega$	65			V
I_{CEO}	$V_{CE} = 50$ V			2.0	mA
I_{CEX}	$V_{CE} = 75$ V $V_{BE} = -1.5$ V $T_C = 25^\circ C$ $T_C = 150^\circ C$			2.0 10	mA
I_{EBO}	$V_{EB} = 8.0$ V			1.0	mA
h_{FE}	$V_{CE} = 4.0$ V $I_C = 4.0$ A $I_C = 10$ A	20 5.0		80	---
$V_{CE(SAT)}$	$I_C = 10$ A $I_B = 2.0$ A			2.5	V
$V_{BE(ON)}$	$V_{CE} = 4.0$ V $I_C = 4.0$ A			1.7	V
h_{fe}	$V_{CE} = 4.0$ V $I_C = 0.5$ A $f = 1.0$ KHz	15			---
f_t	$V_{CE} = 4.0$ V $I_C = 0.5$ A $f = 0.1$ MHz	8.0		28	---

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