

MICRO

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CL055 CL066

THE CL055 (PNP) AND CL066 (NPN) ARE SILICON PLANAR EPITAXIAL COMPLEMENTARY PAIR SPECIALLY DESIGNED FOR 1-WATT AUDIO AMPLIFIER OUTPUT AND SWITCHING APPLICATIONS. THEY FEATURE LOW COLLECTOR-EMITTER KNEE VOLTAGE AND GOOD LINEARITY OF D.C. CURRENT GAIN.

CASE TO-92A



ABSOLUTE MAXIMUM RATINGS

For p-n-p devices, voltage and current values are negative

Collector-Base Voltage	VCBO	25V
Collector-Emitter Voltage	VCEO	20V
Emitter-Base Voltage	VEBO	5V
Collector Current	IC	1A
Collector Peak Current ($t \leq 50\text{ms}$)	ICM	1.5A
Total Power Dissipation @ $T_C \leq 25^\circ\text{C}$	Ptot	1.5W

Without Heat Sink @ $T_A \leq 25^\circ\text{C}$

625mW

Operating Junction & Storage Temperature

T_j, T_{stg}

-55 to 150°C

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	BVCBO	25			V	$I_C = 100\mu\text{A}$ $I_E = 0$
Collector-Emitter Breakdown Voltage	LVCEO *	20			V	$I_C = 10\text{mA}$ $I_B = 0$
Collector-Emitter Cutoff Current	ICES		0.5		μA	$V_{CE} = 20\text{V}$ $V_{BE} = 0$
Emitter-Base Cutoff Current	IEBO		1.0		μA	$V_{EB} = 5\text{V}$ $I_C = 0$
Collector-Emitter Knee Voltage	VCEK	0.25	0.5		V	$I_C = 0.2\text{A}$ $I_B = \text{value at which } I_C = 0.22\text{A}$ $V_{CE} = 1\text{V}$
Collector-Emitter Saturation Voltage	VCE(sat) *	0.21	0.4		V	$I_C = 0.5\text{A}$ $I_B = 0.05\text{A}$
Base-Emitter Voltage	VBE *	0.87	1.2		V	$I_C = 0.5\text{A}$ $V_{CE} = 1\text{V}$
D.C. Current Gain (Note)	HFE 1 *	50	160	360		$I_C = 0.1\text{A}$ $V_{CE} = 1\text{V}$
	HFE 2 *	20	80			$I_C = 1\text{A}$ $V_{CE} = 2\text{V}$
Current Gain-Bandwidth Product	fT		120		MHz	$I_C = 50\text{mA}$ $V_{CE} = 10\text{V}$

Note : HFE 1 is classified as follows.

Group A : 50-100

Group B : 80-160

Group C : 120-240

Group D : 180-360

* Pulse Test ; Pulse Width=0.3ms, Duty Cycle=1%

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