

Product overview

Package	V_{DS}	$R_{DS(on)}$ @ $V_{GS} = 10V$ (m Ω)	Q_{rr}	Q_{GD}	C_{iss}	typical Class D amplifier		
PHX34NQ11T	110	40	240	18	1,700	+/- 45V	500	2
PHX27NQ11T	110	50	160	12	1,240	+/- 45V	400	2.5
PHX23NQ11T	110	70	120	10	830	+/- 45V	300	3
PHX18NQ11T	PHP18NQ11T	110	90	135	8	+/- 45V	250	4
	PHP28NQ15T	150	63	170	8	+/- 70V	600	4

200W demo amplifier specifications

Property	Condition	Value
Output power	Supply voltage = $\pm 45V$	200W (RMS)
Efficiency	$R_{load} = 4\Omega$ $P_{out} = 100W$	$\geq 92\%$
THD + N	$R_{load} = 4\Omega$ $P_{out} = 10W$ $20Hz < f < 20kHz$	$\leq 0.03\%$
SNR		$\geq 120dB$

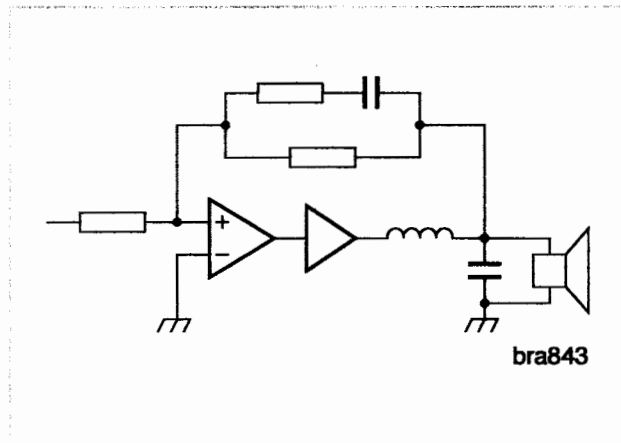


Fig.1 UcD principle diagram

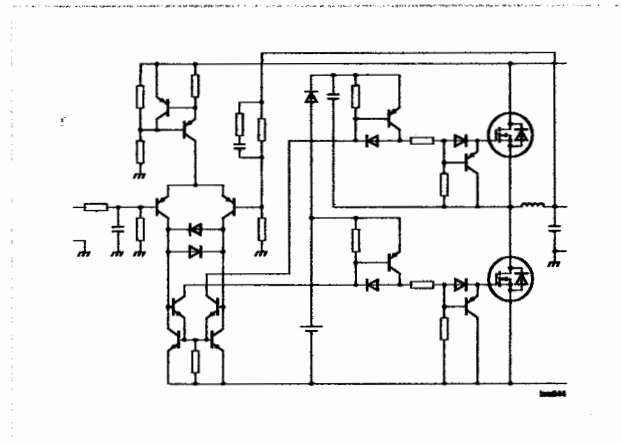


Fig.2 Basic discrete UcD implementation

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