

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

CENU05 CENU06 CENU07 NPN
CENU55 CENU56 CENU57 PNP

SILICON COMPLEMENTARY
POWER TRANSISTORS

JEDEC TO-202 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CENU05, CENU55 Series types are complementary Silicon Power Transistors designed for general purpose audio amplifier applications. These devices are electrical equivalents to Motorola's MPSU05, MPSU06, MPSU07 and MPSU55, MPSU56, MPSU57.

MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

	SYMBOL	CENU05 CENU55	CENU06 CENU56	CENU07 CENU57	UNIT
Collector-Emitter Voltage	V _{CEO}	60	80	100	V
Collector-Base Voltage	V _{CBO}	60	80	100	V
Emitter-Base Voltage	V _{EBO}	4.0	4.0	4.0	V
Collector Current	I _C	2.0	2.0	2.0	A
Power Dissipation (T _A =25°C)	P _D	1.75	1.75	1.75	W
Power Dissipation	P _D	10	10	10	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 TO +150			°C
Thermal Resistance	θ _{JA}	71.4	71.4	71.4	°C/W
Thermal Resistance	θ _{JC}	12.5	12.5	12.5	°C/W

ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
BV _{CEO}	I _C =1.0mA (CENU05, CENU55)	60		V
BV _{CEO}	I _C =1.0mA (CENU06, CENU56)	80		V
BV _{CEO}	I _C =1.0mA (CENU07, CENU57)	100		V
I _{CBO}	V _{CB} =RATED V _{CBO}		0.1	μA
I _{EBO}	V _{EB} =4.0V		100	μA
h _{FE}	V _{CE} =1.0V, I _C =50mA	80		
h _{FE}	V _{CE} =1.0V, I _C =250mA	50		
h _{FE}	V _{CE} =1.0V, I _C =500mA	20		
V _{CE(SAT)}	I _C =250mA, I _B =10mA		0.5	V
V _{CE(SAT)}	I _C =250mA, I _B =25mA		0.35	V
V _{BE(ON)}	V _{CE} =1.0V, I _C =250mA		1.2	V
f _T	V _{CE} =5.0V, I _C =200mA, f=100MHz	50		MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		30	pF



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