Central™
Semiconductor Corp.
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Manufacturers of World Class Discrete Semiconductors

MPS650 MPS651 NPN TO-92 EBC
MPS750 MPS751 PNP TO-92 EBC
CENW650 CENW651 NPN TO-237 EBC
CENW750 CENW751 PNP TO-237 EBC

COMPLEMENTARY SILICON SMALL SIGNAL TRANSISTORS

DESCRIPTION

The CENTRAL SEMICONDUCTOR MPS/CENW650, MPS/CENW750 series types are complementary silicon transistors mounted in an epoxy case and designed for general purpose amplifier and switching application requiring high gain at a high collector current.

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

		SYMBOL	MPS650 CENW650	MPS651 CENW651	MPS750 CENW750	MPS751 CENW751	UNIT
Collector-Base Voltage		V_{CBO}	60	80	60	80	V
Collector-Emitter Voltage		V_{CEO}	40	60	40	60	V
Emitter-Base Voltage		V_{EBO}	5.0	5.0	5.0	5.0	V
Collector Current		I_C	2.0	2.0	2.0	2.0	A
Power Dissipation	(TO-92 case)	P_D	625	625	625	625	mW
Power Dissipation	(TO-237 case)	P_D	1.0	1.0	1.0	1.0	W
Power Dissipation (T_C=25°C)	(TO-92 case)	P_D	1.5	1.5	1.5	1.5	W
Power Dissipation (T_C=25°C)	(TO-237 case)	P_D	2.5	2.5	2.5	2.5	W
Operating and Storage Junction Temperature		T_J, T_{STG}	-65 TO +150				°C
Thermal Resistance	(TO-92 case)	Θ_{JA}	200				°C/W
Thermal Resistance	(TO-237 case)	Θ_{JA}	125				°C/W
Thermal Resistance	(TO-92 case)	Θ_{JC}	83.3				°C/W
Thermal Resistance	(TO-237 case)	Θ_{JC}	50				°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MPS/CENW650 MPS/CENW750 MIN	MAX	MPS/CENW651 MPS/CENW751 MIN	MAX	UNIT
I_{CBO}	V_{CB}=60V		0.1		–	μA
I_{CBO}	V_{CB}=80V		–		0.1	μA
I_{EBO}	V_{EB}=4.0V		0.1		0.1	μA
BV_{CBO}	I_C=100μA	60		80		V
BV_{CEO}	I_C=10mA	40		60		V
BV_{EBO}	I_E=10μA	5.0		5.0		V
$V_{CE(SAT)}$	I_C=1.0A, I_B=100mA		0.3		0.3	V
$V_{CE(SAT)}$	I_C=2.0A, I_B=200mA		0.5		0.5	V
$V_{BE(ON)}$	V_{CE}=2.0V, I_C=1.0A		1.0		1.0	V
$V_{BE(SAT)}$	I_C=1.0A, I_B=100mA		1.2		1.2	V
h_{FE}	V_{CE}=2.0V, I_C=50mA	75		75		
h_{FE}	V_{CE}=2.0V, I_C=500mA	75		75		
h_{FE}	V_{CE}=2.0V, I_C=1.0A	75		75		
h_{FE}	V_{CE}=2.0V, I_C=2.0A	40		40		
f_T	V_{CE}=5.0V, I_C=50mA, f=100MHz	75		75		MHz

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