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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPS650, MPS750 series devices are complementary silicon transistors designed for general purpose amplifier and switching applications requiring high gain at high collector current.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C unless otherwis	se noted)	MPS650	MPS651	
	SYMBOL	MPS750	MPS751	UNITS
Collector-Base Voltage	V _{CBO}	60	80	V
Collector-Emitter Voltage	V _{CEO}	40	60	V
Emitter-Base Voltage	V _{EBO}	5	5.0	
Continuous Collector Current	IС	2	.0	А
Power Dissipation	PD	62	25	mW
Power Dissipation (T _C =25°C)	PD	1	.5	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150		°C
Thermal Resistance	Θ _{JA}	20	00	°C/W
Thermal Resistance	ΘJC	83	9.3	°C/W
	MPS	650	MPS651	

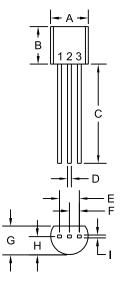
				MPS651 MPS751		
ELECTRICAL CHARACTERISTICS: (T _A =25°C) SYMBOL TEST CONDITIONS			<u>8750</u>	MIN	MAX	UNITS
		MIN	MAX 100		IVIAA	nA
ICBO	V _{CB} =60V	-	100	-	-	
I _{CBO}	V _{CB} =80V	-	-	-	100	nA
IEBO	V _{EB} =4.0V	-	100	-	100	nA
BVCBO	Ι _C =100μΑ	60	-	80	-	V
BVCEO	I _C =10mA	40	-	60	-	V
BVEBO	I _E =10μΑ	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(SAT)}	I _C =1.0A, I _B =100mA	-	1.2	-	1.2	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =1.0A	-	1.0	-	1.0	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	-	
fT	V_{CE} =5.0V, I _C =50mA, f=100MHz	75	-	75	-	MHz

R1 (2-December 2014)





COMPLEMENTARY SILICON TRANSISTORS



DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	0.175	0.205	4.45	5.21	
В	0.170	0.210	4.32	5.33	
С	0.500	-	12.70	-	
D	0.016	0.022	0.41	0.56	
Е	0.100		2.54		
F	0.050		1.27		
G	0.125	0.165	3.18	4.19	
Н	0.080	0.105	2.03	2.67	
	0.015		0.38		
TO-92 (REV: R1)					

TO-92 CASE - MECHANICAL OUTLINE

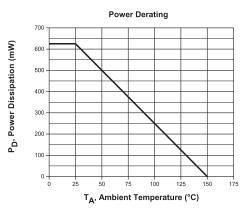
LEAD CODE: 1) Emitter 2) Base

3) Collector

MARKING: FULL PART NUMBER

TYPICAL ELECTRICAL CHARACTERISTICS

R1

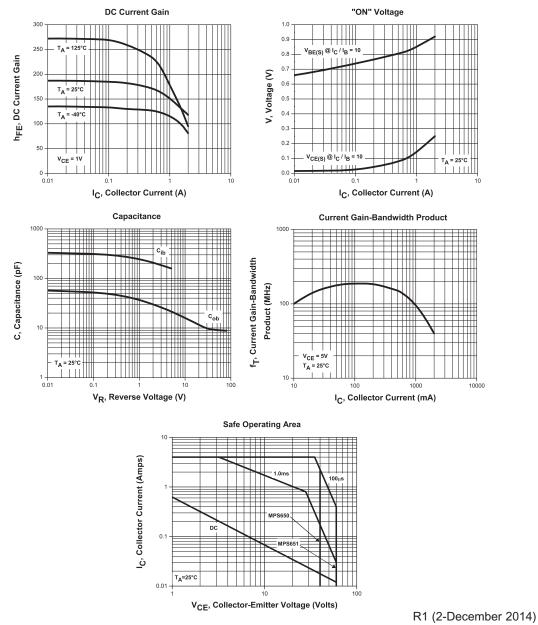


R1 (2-December 2014)



MPS650 MPS651 NPN MPS750 MPS751 PNP

COMPLEMENTARY SILICON TRANSISTORS

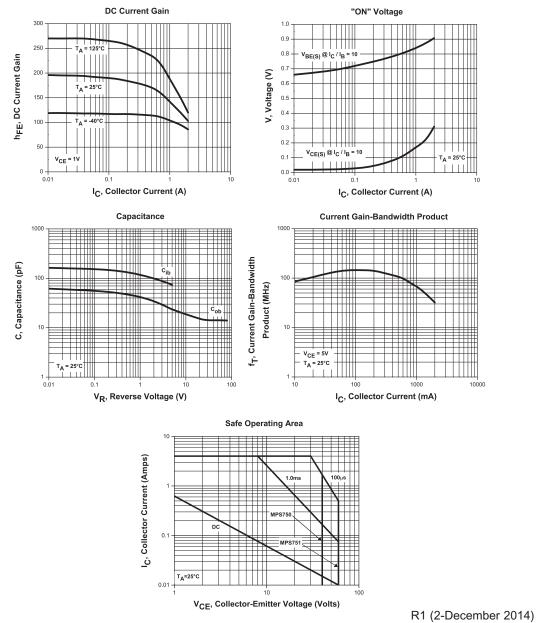


NPN TYPICAL ELECTRICAL CHARACTERISTICS



MPS650 MPS651 NPN MPS750 MPS751 PNP

COMPLEMENTARY SILICON TRANSISTORS



PNP TYPICAL ELECTRICAL CHARACTERISTICS

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