MPSA05 MPSA06 NPN MPSA55 MPSA56 PNP

COMPLEMENTARY SILICON TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSA05, MPSA55 series devices are complementary silicon transistors designed for low power output and medium power driver applications.





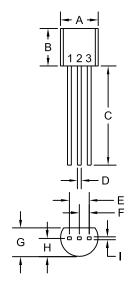
MAXIMUM RA	ATINGS : (T _A =25°C) e Voltage	SYMBOL V _{CBO}	MPSA05 MPSA55 60	MPSA06 MPSA56 80	UNITS V
Collector-Emitter Voltage		V_{CEO}	60	80	V
Emitter-Base Voltage		V_{EBO}	4.0		V
Continuous C	ollector Current	IC	50	00	mA
Power Dissipa	ation	P_{D}	62	25	mW
Power Dissipa	ation (T _C =25°C)	P_{D}	1.5		W
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150		°C
Thermal Resi	stance	Θ_{JA}	200		°C/W
Thermal Resistance		$_{\Theta}$ JC	83	3.3	°C/W
ELECTRICAL SYMBOL ICBO	CHARACTERISTICS: (T _A =25°C) TEST CONDITIONS V _{CB} =Rated V _{CBO}	MIN	M ./		UNITS nA
I _{CES}	V _{CF} =60V		10	00	nA
BVCEO	I _C =1.0mA (MPSA05, 55)	60			V
BV _{CEO}	I _C =1.0mA (MPSA06, 56)	80			V
BV _{EBO}	I _E =100μA	4.0			V
V _{CE} (SAT)	I _C =100mA, I _B =10mA		0.2	25	V
V _{BE} (ON)	V _{CE} =1.0V, I _C =100mA		1.	.2	V
h _{FE}	V _{CE} =1.0V, I _C =10mA	100			
hFE	V _{CE} =1.0V, I _C =100mA	100			
f_{T}	V_{CE} =2.0V, I_{C} =10mA, f=100MHz (N	PN) 100			MHz
f_{T}	V_{CE} =1.0V, I_{C} =100mA, f=100MHz (F	PNP) 50			MHz

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TO-92 CASE - MECHANICAL OUTLINE



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)

LEAD CODE:1) Emitter

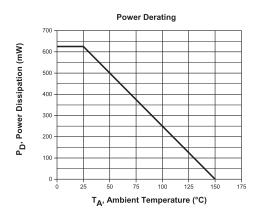
- 2) Base
- 3) Collector

MARKING:

FULL PART NUMBER

TYPICAL ELECTRICAL CHARACTERISTICS

R1



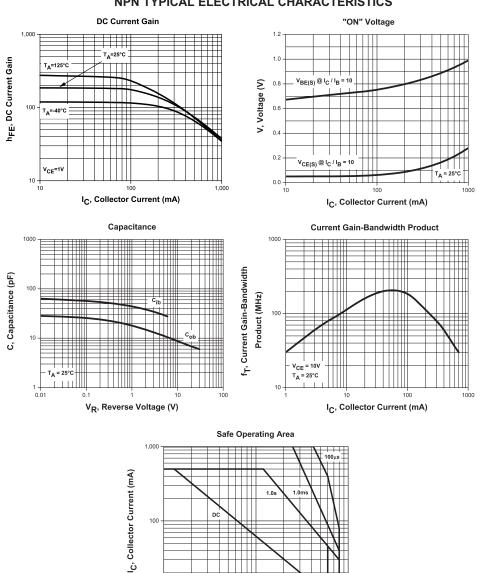
R7 (26-March 2015)

NPN MPSA05 MPSA06 MPSA55 MPSA56 **PNP**





NPN TYPICAL ELECTRICAL CHARACTERISTICS



MPSA06

V_{CE}, Collector-Emitter Voltage (Volts)

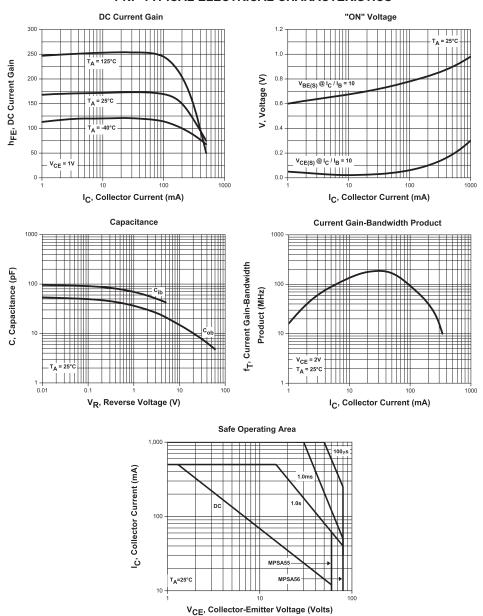
T_A=25°C

MPSA05 MPSA06 NPN MPSA55 MPSA56 PNP





PNP TYPICAL ELECTRICAL CHARACTERISTICS



MPSA05 MPSA06 NPN MPSA55 MPSA56 PNP





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