

TO-92 CASE



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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.

MARKING: FULL PART NUMBER

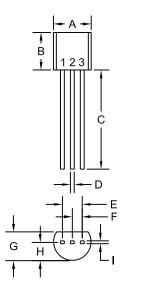
MAXIMUM RA	ATINGS: (T _A =25°C) e Voltage	SYMBOL V _{CBO}	MPSA05 MPSA55 60	MPSA06 MPSA56 80	UNITS V
Collector-Emitter Voltage		V _{CEO}	60	80	V
Emitter-Base Voltage		V _{EBO}	4.0		V
Continuous Collector Current		IC	500		mA
Power Dissipation		PD	625		mW
Power Dissipation (T _C =25°C)		PD	1.5		W
Operating and Storage Junction Temperature		TJ, T _{stg}	-65 to +150		°C
Thermal Resistance		Θ_{JA}	200		°C/W
Thermal Resistance		Θ ^{IC}	83	.3	°C/W
ELECTRICALCHARACTERISTICS: (T _A =25°C)SYMBOLTEST CONDITIONSICBOVCB=Rated VCBO		MIN	M # 10		UNITS nA
ICES	V _{CE} =60V		10	0	nA
BVCEO	I _C =1.0mA (MPSA05, 55)	60			V
BVCEO	I _C =1.0mA (MPSA06, 56)	80			V
BV _{EBO}	I _E =100μΑ	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			
h _{FE}	V _{CE} =1.0V, I _C =100mA 100				
fT	V _{CE} =2.0V, I _C =10mA, f=100MHz (NPN) 100				MHz
f _T	V_{CE} =1.0V, I _C =100mA, f=100MHz	(PNP) 50			MHz

R7 (26-March 2015)



MPSA05 MPSA06 NPN MPSA55 MPSA56 PNP

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				
E	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				
	0.0)15	0.38					
TO 02 (DE)/(D1)								

TO-92 (REV: R1)

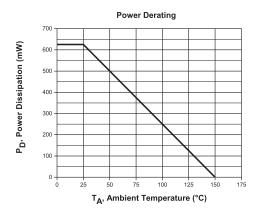
LEAD CODE: 1) Emitter 2) Base

3) Collector

MARKING: FULL PART NUMBER

TYPICAL ELECTRICAL CHARACTERISTICS

R1



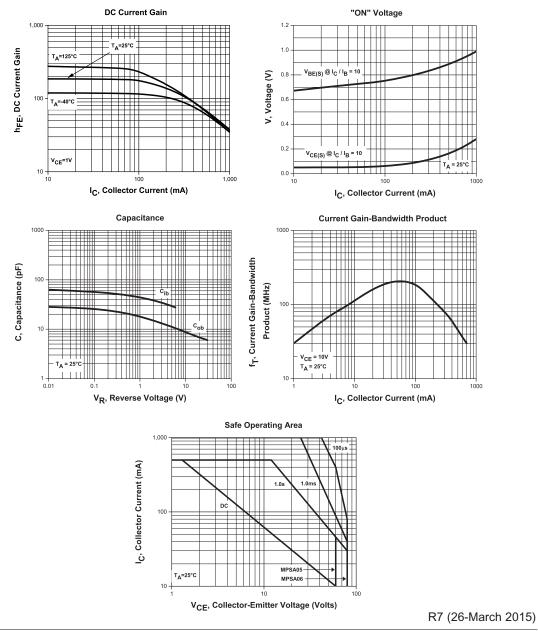
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TO-92 CASE - MECHANICAL OUTLINE



COMPLEMENTARY SILICON TRANSISTORS

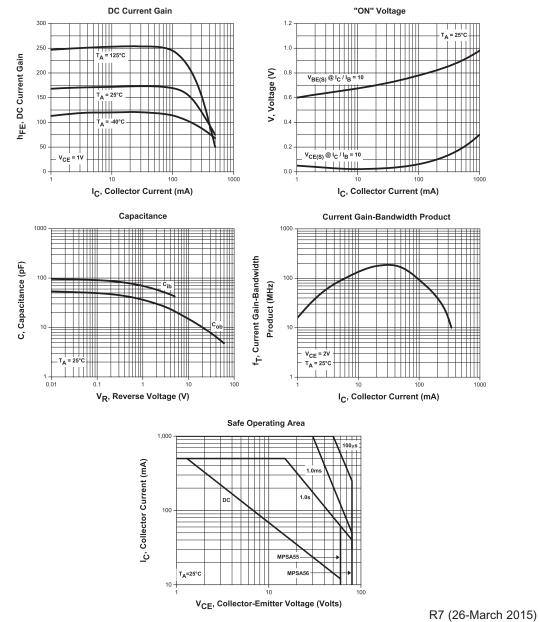


NPN TYPICAL ELECTRICAL CHARACTERISTICS

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PNP TYPICAL ELECTRICAL CHARACTERISTICS

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MPSA05 MPSA06 NPN MPSA55 MPSA56 PNP



COMPLEMENTARY SILICON TRANSISTORS

SERVICES

- · Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/Multi Discrete Modules (MDM[™])
- · Bare Die Available for Hybrid Applications

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