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 VCBO	MPSA05 MPSA55 60	MPSA06 MPSA56 80	UNITS
Collector-Emitter Voltage		V _{CEO}	60	80	V
Emitter-Base Voltage		V_{EBO}	4	.0	V
Continuous Collector Current		IC	500		mA
Power Dissipation		P_{D}	625		mW
Power Dissipa	ation (T _C =25°C)	P_{D}	1.5		W
Operating and	d Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
Thermal Resistance		Θ_{JA}	200		°C/W
Thermal Resistance		Θ JC	83	3.3	°C/W
ELECTRICAL SYMBOL ICBO	CHARACTERISTICS: (T _A =25°C) TEST CONDITIONS V _{CB} =Rated V _{CBO}	MIN		AX 00	UNITS nA
ICES	V _{CE} =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	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}	$V_{\mbox{CE}}$ =2.0V, $I_{\mbox{C}}$ =10mA, f=100MHz (N	NPN) 100			MHz
f_{T}	V _{CE} =1.0V, I _C =100mA, f=100MHz	(PNP) 50			MHz

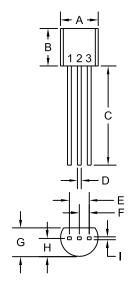
R9 (21-June 2019)

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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

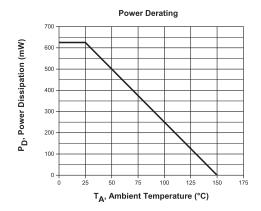
- 2) Base
- 3) Collector

MARKING:

FULL PART NUMBER

TYPICAL ELECTRICAL CHARACTERISTICS

R1



R9 (21-June 2019)

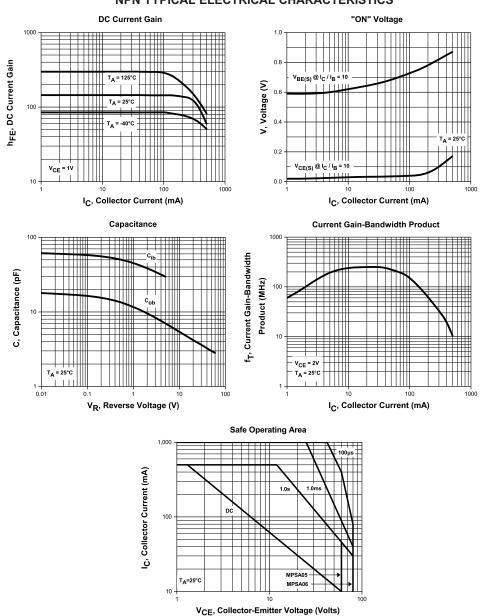
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NPN TYPICAL ELECTRICAL CHARACTERISTICS



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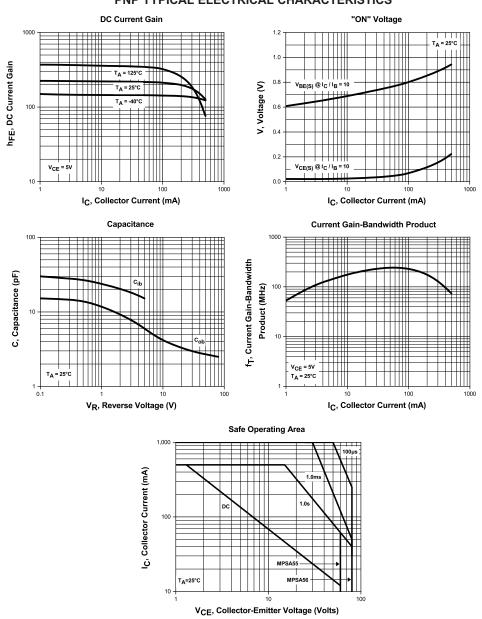
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PNP TYPICAL ELECTRICAL CHARACTERISTICS



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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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