MPS8098 MPS8099

NPN SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPS8098 and MPS8099 types are NPN silicon transistors designed for general purpose audio amplifier applications.

PNP complementary types are MPS8598 and MPS8599.

MARKING: FULL PART NUMBER



MAXIMUM F Collector-Base	RATINGS: (T _A =25°C) e Voltage	SYMBOL V _{CBO}	MPS8098 60	<u>MPS</u> 8		UNITS V
Collector-Emit	ter Voltage	V_{CEO}	60	8	0	V
Emitter-Base Voltage		V_{EBO}	6.0			V
Continuous Collector Current		I_{C}	500			mA
Power Dissipation		P_{D}	625			mW
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150		°C	
Thermal Resistance		Θ_{JA}	200			°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C)		MPS8098		MPS8099		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =Rated V _{CBO}	-	0.1	-	0.1	μΑ
ICEO	V _{CE} =60V	-	0.1	-	0.1	μΑ

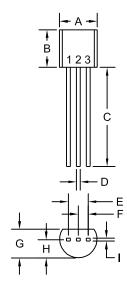
ELECTRICAL CHARACTERISTICS: (TA=25°C)		MPS	MPS8098		MPS8099	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =Rated V _{CBO}	-	0.1	-	0.1	μΑ
ICEO	V _{CE} =60V	-	0.1	-	0.1	μΑ
I _{EBO}	V _{EB} =6.0V	-	0.1	-	0.1	μΑ
BV _{CBO}	I _C =100μA	60	-	80	-	V
BVCEO	I _C =10mA	60	-	80	-	V
BV _{EBO}	I _E =10μA	6.0	-	6.0	-	V
V _{CE} (SAT)	I _C =100mA, I _B =5.0mA	-	0.4	-	0.4	V
V _{CE(SAT)}	I _C =100mA, I _B =10mA	-	0.3	-	0.3	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =1.0mA	0.5	0.7	-	-	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =10mA	-	-	0.6	8.0	V
hFE	V _{CE} =5.0V, I _C =1.0mA	100	300	100	300	
h _{FE}	V _{CE} =5.0V, I _C =10mA	100	-	100	-	
hFE	V_{CE} =5.0V, I_{C} =100mA	75	-	75	-	
f _T	V_{CE} =5.0V, I_{C} =10mA, f=100MHz	150	-	150	-	MHz
C _{ob}	V_{CB} =5.0V, I_{E} =0, f=1.0MHz	-	6.0	-	6.0	pF
C _{ib}	V_{EB} =0.5V, I_{C} =0, f=1.0MHz	-	25	-	25	pF

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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:

R1

FULL PART NUMBER



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 quick 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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