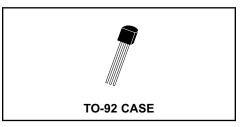
MPSH81

PNP SILICON RF TRANSISTOR





DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSH81 is a PNP Silicon Transistor designed for general purpose RF amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	20	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	50	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘJC	357	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C unless otherwise noted})$

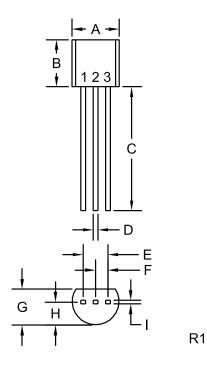
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =10V		100	nA
I _{EBO}	V _{EB} =2.0V		100	nA
BV _{CBO}	I _C =10μA	20		V
BV _{CEO}	I _C =1.0mA	20		V
BV _{EBO}	I _E =10μA	3.0		V
VCE(SAT)	I _C =5.0mA, I _B =0.5mA		0.5	V
V _{BE(ON)}	V_{CE} =10V, I_{C} =5.0mA		0.9	V
hFE	V_{CE} =10V, I_{C} =5.0mA	60		
fT	V_{CE} =10V, I_{C} =5.0mA, f=100MHz	600		MHz
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz		0.85	pF
C _{ib}	V_{CB} =10V, I_{B} =0, f=1.0MHz		0.65	pF



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PNP SILICON RF TRANSISTOR

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) BASE
- 2) EMITTER
- 3) COLLECTOR

MARKING: FULL PART NUMBER

R0 (25-April 2008)

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

CONTACT US

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