MPS455

SILICON NPN TRANSISTOR

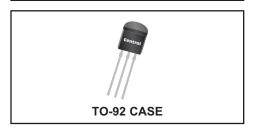


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPS455 is a silicon NPN medium power transistor, manufactured by the epitaxial planar process, designed for general purpose amplifier and switching applications.





MAXIMUM RATINGS: (TA=25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	V_{CEO}	140	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	1.0	Α
Peak Collector Current	^I CM	2.0	Α
Power Dissipation	P_{D}	1.0	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘΙΔ	125	°C/W

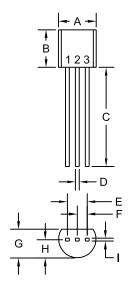
memai Nesi	stance	OJA	14	23	C/VV
ELECTRICAL SYMBOL ICBO	. CHARACTERISTICS: $(T_A=25^{\circ}C)$ test conditions $V_{CB}=140V$	inless otherwise MIN	noted) TYP	MAX 100	UNITS nA
I _{EBO}	V _{EB} =4.0V			100	nA
BV _{CBO}	I _C =100μA	160			V
BV _{CEO}	I _C =10mA	140			V
BVEBO	I _E =100μA	5.0			V
V _{CE(SAT)}	I _C =150mA, I _B =15mA			700	mV
h _{FE}	V _{CE} =10V, I _C =150mA	100		300	
hFE	V _{CE} =10V, I _C =1.0A		10		
f _T	V_{CE} =10V, I_{C} =50mA, f=100MHz	100			MHz
C_{ob}	V_{CB} =10V, I_E =0, f=1.0MHz			15	pF

MPS455

SILICON **NPN 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			
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			
	0.015		0.38				

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter

R1

2) Base 3) Collector

MARKING:

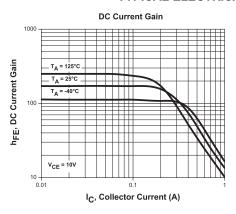
FULL PART NUMBER

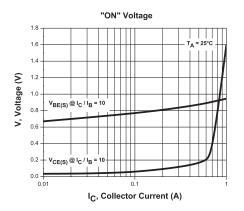
MPS455

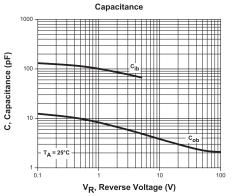
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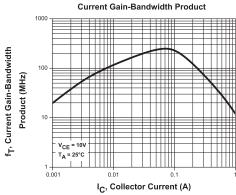


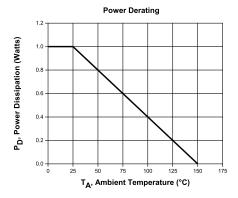
TYPICAL ELECTRICAL CHARACTERISTICS











R1 (7-February 2014)

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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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