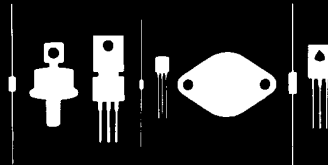


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145 Adams Avenue
Hauppauge, New York 11788



2N4354 MPS4354
2N4355 MPS4355
2N4356 MPS4356

JEDEC TO-105 JEDEC TO-92(EBC)

SILICON PNP TRANSISTORS

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N4354, MPS4354 series types are Silicon PNP Small Signal Transistors designed for general purpose amplifier and switching applications.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

	SYMBOL	2N4354 MPS4354	2N4355 MPS4355	2N4356 MPS4356	UNIT
Collector-Base Voltage	V_{CB0}	60		80	V
Collector-Emitter Voltage	V_{CE0}	60		80	V
Emitter-Base Voltage	V_{EB0}	5.0		5.0	V
Collector Current	I_C	1.0		1.0	A
Power Dissipation, MPS Types (TO-92 CASE)	P_D		625		mW
Power Dissipation, 2N Types (TO-105 CASE)	P_D		350		mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +150			$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N4354 MPS4354		2N4355 MPS4355		2N4356 MPS4356		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB}=50\text{V}$		50		50		50	nA
I_{CBO}	$V_{CB}=50\text{V}, T_A=75^\circ\text{C}$		5.0		5.0		5.0	μA
I_{EBO}	$V_{EB}=4.0\text{V}$		100		100		100	nA
BV_{CB0}	$I_C=10\mu\text{A}$	60		60		80		V
BV_{EB0}	$I_E=10\mu\text{A}$	5.0		5.0		5.0		V
BV_{CE0}	$I_C=10\text{mA}$	60		60		80		V
$V_{CE}(\text{SAT})$	$I_C=150\text{mA}, I_B=15\text{mA}$		0.15		0.15		0.15	V
$V_{CE}(\text{SAT})$	$I_C=500\text{mA}, I_B=50\text{mA}$		0.5		0.5		0.5	V
$V_{CE}(\text{SAT})$	$I_C=1.0\text{A}, I_B=100\text{mA}$		-		1.0		-	V
$V_{BE}(\text{SAT})$	$I_C=150\text{mA}, I_B=15\text{mA}$		0.9		0.9		0.9	V
$V_{BE}(\text{SAT})$	$I_C=500\text{mA}, I_B=50\text{mA}$		1.1		1.1		1.1	V
$V_{BE}(\text{SAT})$	$I_C=1.0\text{A}, I_B=100\text{mA}$		-		1.2		-	V
$V_{BE}(\text{ON})$	$V_{CE}=0.5\text{V}, I_C=500\text{mA}$		1.1		1.1		1.1	V
$V_{BE}(\text{ON})$	$V_{CE}=1.0\text{V}, I_C=1.0\text{A}$		-		1.2		-	V
h_{FE}	$V_{CE}=10\text{V}, I_C=100\mu\text{A}$	25		60		25		
h_{FE}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}$	40		75		40		
h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	50	500	100	400	50	250	
h_{FE}	$V_{CE}=10\text{V}, I_C=100\text{mA}$	40		75		40		
h_{FE}	$V_{CE}=10\text{V}, I_C=500\text{mA}$	30		75		30		
f_T	$V_{CE}=10\text{V}, I_C=50\text{mA}, f=100\text{MHz}$	100	500	100	500	100	500	MHz
C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$		30		30		30	pF
C_{ib}	$V_{EB}=0.5\text{V}, I_C=0, f=1.0\text{MHz}$		110		110		100	pF
t_{on}	$V_{CC}=30\text{V}, I_C=500\text{mA}, I_{B1}=50\text{mA}$		100		100		100	ns
t_{off}	$V_{CC}=30\text{V}, I_C=500\text{mA}, I_{B1}=I_{B2}=50\text{mA}$		400		400		400	ns
NF	$V_{CE}=10\text{V}, I_C=100\mu\text{A}, R_S=1.0\text{k}\Omega,$ $f=1.0\text{kHz}, BW=1.0\text{Hz}$		3.0		3.0		3.0	dB

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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Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms



http://www.centrasemi.com

Product End of Life Notification

PDN ID:	PDN01062
Notification Date:	1/13/17
Last Buy Date:	7/13/17
Last Shipment Date	1/13/18

Summary: All transistors manufactured in the TO-105 package are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
2N3567	PN3567
2N3568	PN3568
2N3569	PN3569
2N3638	PN3638A
2N3638A	PN3638A
2N3644	PN3644
2N4354	PN4354
2N4355	PN4355
2N4356	PN4356

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.