THE ZTX756/ZTX757 ARE NOT RECOMMENDED FOR NEW DESIGNS.
PLEASE CONTACT US.

ZTX756/ZTX757

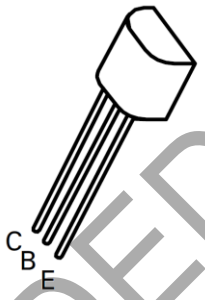
PNP SILICON PLANAR MEDIUM-POWER HIGH-VOLTAGE TRANSISTORS

Features

- 300 Volt V_{CEO}
- 0.5 Amp Continuous Current
- P_{tot} = 1 Watt
- **For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/**

Pin Assignments

E-Line (TO92 Compatible)



Absolute Maximum Ratings

Parameter	Symbol	ZTX756	ZTX757	Unit
Collector-Base Voltage	V_{CBO}	-200	-300	V
Collector-Emitter Voltage	V_{CEO}	-200	-300	V
Emitter-Base Voltage	V_{EBO}	-5		V
Peak Pulse Current	I_{CM}	-1		A
Continuous Collector Current	I_C	-0.5		A
Power Dissipation at T_{amb} = 25°C	P_{tot}	1		W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 200		°C

Electrical Characteristics (@ T_{amb} = +25°C, unless otherwise stated.)

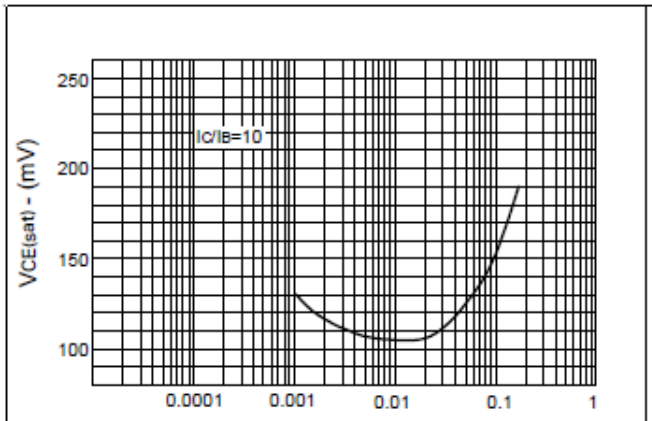
Parameter	Symbol	ZTX756		ZTX757		Unit	Conditions
		Min	Max	Min	Max		
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-200	—	-300	—	V	I_C = -100µA, I_E = 0A
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-200	—	-300	—	V	I_C = -10mA, I_B = 0A
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	—	-5	—	V	I_E = -100µA, I_C = 0A
Collector Cutoff Current	I_{CBO}	— —	-100 —	— —	— -100	nA	V_{CB} = -160V, I_E = 0A V_{CB} = -200V, I_E = 0A
Emitter Cutoff Current	I_{EBO}	—	-100	—	-100	nA	V_{EB} = -3V, I_C = 0A
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	—	-0.5	—	-0.5	V	I_C = -100mA, I_B = -10mA
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	—	-1.0	—	-1.0	V	I_C = -100mA, I_B = -10mA
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	—	-1.0	—	-1.0	V	I_C = -100mA, V_{CE} = -5V
Static Forward Current Transfer Ratio	h_{FE}	50 40	— —	50 40	— —	—	I_C = -100mA, V_{CE} = -5V I_C = -10mA, V_{CE} = -5V
Transition Frequency	f_T	30	—	30	—	MHz	I_C = -10mA, V_{CE} = -20V f = 20MHz
Output Capacitance	C_{obo}	—	20	—	20	pF	V_{CB} = -20V, f = 1MHz

NOT RECOMMENDED FOR NEW DESIGN

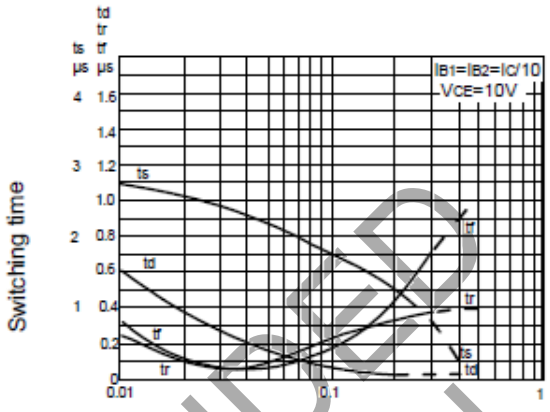
© 2026 Copyright Diodes Incorporated. All Rights Reserved.

Downloaded from Arrow.com.

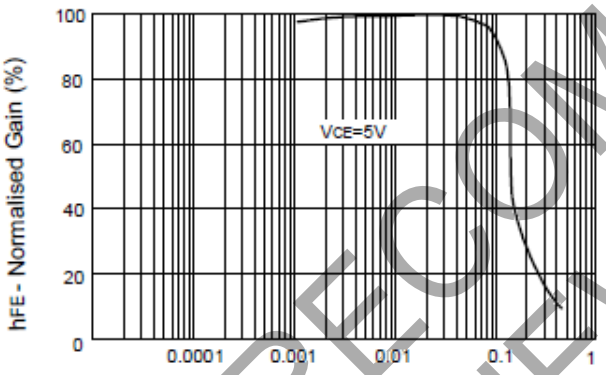
Typical Characteristics



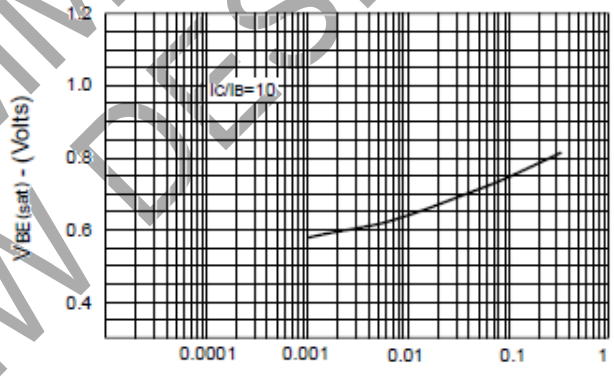
VCE(sat) v IC



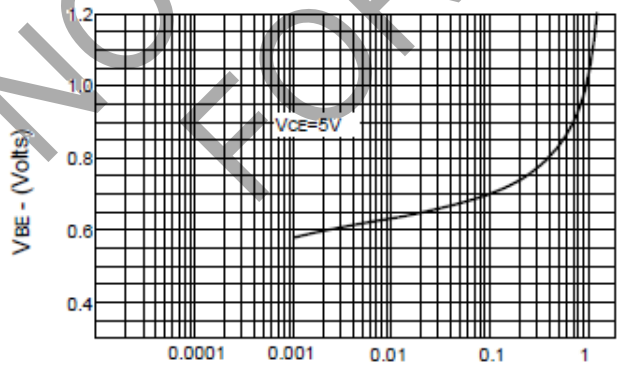
Switching Speeds



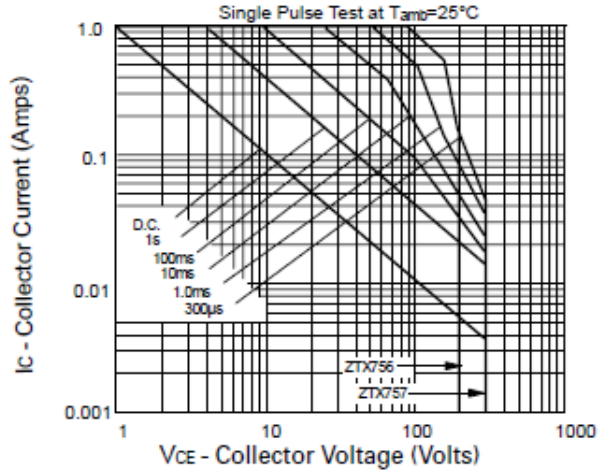
hFE v IC



VBE(sat) v IC



VBE(on) v IC



Safe Operating Area

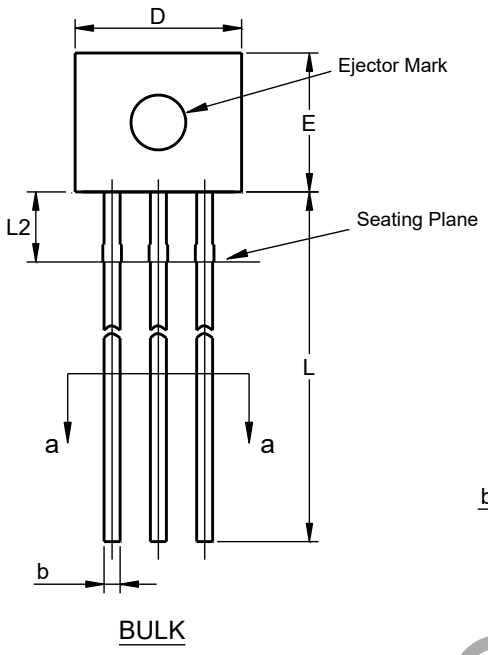
NOT RECOMMENDED FOR NEW DESIGN

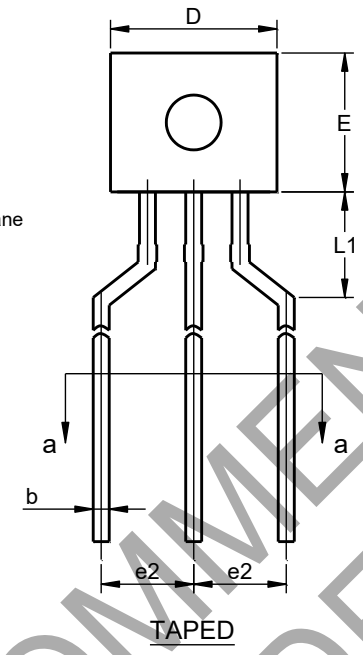
© 2026 Copyright Diodes Incorporated. All Rights Reserved.
Downloaded from Arrow.com.

Package Outline Dimensions

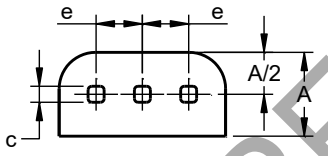
Please see http://www.diodes.com/package-outlines.html for the latest version.

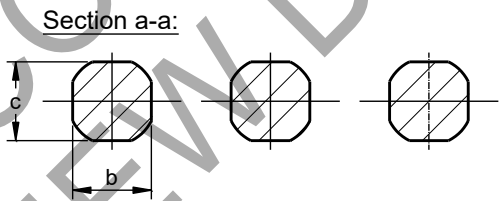
E-Line





E-Line			
Dim	**Min**	**Max**	**Typ**
A	2.16	2.41	2.28
b	0.41	0.49	0.44
c	0.41	0.49	0.44
D	4.37	4.77	4.57
E	3.61	4.01	3.90
e	1.27 REF		
e2	2.54 REF		
L	13.00	13.97	13.50
L1	2.50	3.50	--
L2	--	--	2.50
All Dimensions in mm			



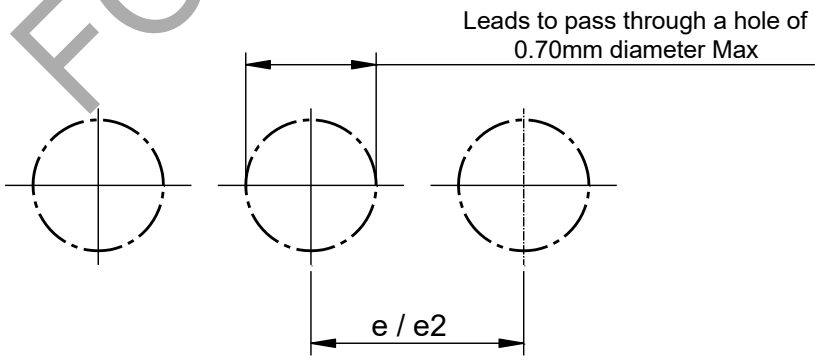


NOT RECOMMENDED FOR NEW DESIGN

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.

E-Line



© 2026 Copyright Diodes Incorporated. All Rights Reserved.

Downloaded from Arrow.com.

IMPORTANT NOTICE

1. DIODES INCORPORATED (Diodes) AND ITS SUBSIDIARIES MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARDS TO ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION).

2. The Information contained herein is for informational purpose only and is provided only to illustrate the operation of Diodes' products described herein and application examples. Diodes does not assume any liability arising out of the application or use of this document or any product described herein. This document is intended for skilled and technically trained engineering customers and users who design with Diodes' products. Diodes' products may be used to facilitate safety-related applications; however, in all instances customers and users are responsible for (a) selecting the appropriate Diodes products for their applications, (b) evaluating the suitability of Diodes' products for their intended applications, (c) ensuring their applications, which incorporate Diodes' products, comply the applicable legal and regulatory requirements as well as safety and functional-safety related standards, and (d) ensuring they design with appropriate safeguards (including testing, validation, quality control techniques, redundancy, malfunction prevention, and appropriate treatment for aging degradation) to minimize the risks associated with their applications.

3. Diodes assumes no liability for any application-related information, support, assistance or feedback that may be provided by Diodes from time to time. Any customer or user of this document or products described herein will assume all risks and liabilities associated with such use, and will hold Diodes and all companies whose products are represented herein or on Diodes' websites, harmless against all damages and liabilities.

4. Products described herein may be covered by one or more United States, international or foreign patents and pending patent applications. Product names and markings noted herein may also be covered by one or more United States, international or foreign trademarks and trademark applications. Diodes does not convey any license under any of its intellectual property rights or the rights of any third parties (including third parties whose products and services may be described in this document or on Diodes' website) under this document.

5. Diodes' products are provided subject to Diodes' Standard Terms and Conditions of Sale (https://www.diodes.com/about/company/terms-and-conditions/terms-and-conditions-of-sales/) or other applicable terms. This document does not alter or expand the applicable warranties provided by Diodes. Diodes does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel.

6. Diodes' products and technology may not be used for or incorporated into any products or systems whose manufacture, use or sale is prohibited under any applicable laws and regulations. Should customers or users use Diodes' products in contravention of any applicable laws or regulations, or for any unintended or unauthorized application, customers and users will (a) be solely responsible for any damages, losses or penalties arising in connection therewith or as a result thereof, and (b) indemnify and hold Diodes and its representatives and agents harmless against any and all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim relating to any noncompliance with the applicable laws and regulations, as well as any unintended or unauthorized application.

7. While efforts have been made to ensure the information contained in this document is accurate, complete and current, it may contain technical inaccuracies, omissions and typographical errors. Diodes does not warrant that information contained in this document is error-free and Diodes is under no obligation to update or otherwise correct this information. Notwithstanding the foregoing, Diodes reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein. This document is written in English but may be translated into multiple languages for reference. Only the English version of this document is the final and determinative format released by Diodes.

8. Any unauthorized copying, modification, distribution, transmission, display or other use of this document (or any portion hereof) is prohibited. Diodes assumes no responsibility for any losses incurred by the customers or users or any third parties arising from any such unauthorized use.

9. This Notice may be periodically updated with the most recent version available at https://www.diodes.com/about/company/terms-and-conditions/important-notice

The Diodes logo is a registered trademark of Diodes Incorporated in the United States and other countries.
All other trademarks are the property of their respective owners.
© 2026 Diodes Incorporated. All Rights Reserved.

www.diodes.com

NOT RECOMMENDED FOR NEW DESIGN

© 2026 Copyright Diodes Incorporated. All Rights Reserved.

Downloaded from Arrow.com.