

捷多邦,专业PCB打样工厂,24小时加急出货



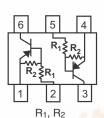
DDA (LO-R1) H

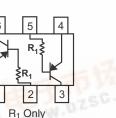
PNP PRE-BIASED SMALL SIGNAL SOT-563 DUAL SURFACE MOUNT TRANSISTOR

Features Epitaxial Planar Die Construction . A Complementary NPN Types Available SOT-563 (DDC) Dim Min Max Тур **Built-In Biasing Resistors** . Α 0.15 0.30 0.25 PXXYM В С Lead Free By Design/RoHS Compliant (Note 3) • В 1.10 1.25 1.20 **Mechanical Data** С 1.55 1.70 1.60 **⊷**D· D 0.50 Case: SOT-563 • G G 0.90 1.10 1.00 Case Material: Molded Plastic. UL Flammability • Classification Rating 94V-0 н 1.70 1.50 1.60 Μ Moisture sensitivity: Level 1 per J-STD-020C • Κ κ 0.56 0.60 0.60 ¥ Terminals: Finish - Matte Tin annealed over Alloy 42 • L 0.15 0.25 0.20 leadframe. Solderable per MIL-STD-202, Method 208 f Μ 0.10 0.18 0.11 Terminal Connections: See Diagram • All Dimensions in mm Weight: 0.005 grams (approx.) **SEE NOTE 1**

Pb

P/N	R1 (NOM)	R2 (NOM)	MARKING
DDA122LH	0.22KΩ	10KΩ	P81
DDA142JH	0.47KΩ	10KΩ	P82
DDA122TH	0.22KΩ	OPEN	P83
DDA142TH	0.47KΩ	OPEN	P84





SCHEMATIC DIAGRAM, TOP VIEW

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	N.DZSU	Symbol	Value	Unit		
Supply Voltage (6) to (1) and (3) to (4)		V _{CC}	-50	V		
Input Voltage (2) to (1) and (5) to (4) DDA122LH DDA142JH		V _{IN}	+5 to -6 +5 to -6	V		
Input Voltage (1) to (2) and (4) to (5) DDA122TH DDA142TH		V _{EBO (MAX)}	-5	Vol		
Output Current All		Ι _C	-100	mA		
Power Dissipation	Pd	150	mW			
Thermal Resistance, Junction to Ambient	R _{0JA}	833	°C/W			
Operating and Storage and Temperature	T _j , T _{STG}	-55 to +150	°C			

Notes: 1. Package is non-polarized. Parts may be on reel in orientation illustrated, 180° rotated, or mixed (both ways).

2. Mounted on FR4 Board with recommended pad layout at http://www.diodes.com/datasheets/ap02001.pdf.

3. No purposefully added lead.





Electrical Characteristics @ T_A = 25°C unless otherwise specified

R1, R2 Types

Characteristic	Symbol	Min	Тур	Мах	Unit	Test Condition			
Input Voltage	DDA122LH DDA142JH	V _{I(off)}	-0.3 -0.3	_	_	V	$V_{CC} = -5V, I_O = -100 \mu A$		
	DDA122LH DDA142JH	V _{I(on)}			-2.0 -2.0	V	$V_{O} = -0.3V$, $I_{O} = -20mA$ $V_{O} = -0.3V$, $I_{O} = -20mA$		
Output Voltage		V _{O(on)}	_	_	-0.3V	V	$I_0/I_1 = -5mA/-0.25mA$		
Input Current DDA122LH DDA142JH		I			-28 -13	mA	V ₁ = -5V		
Output Current	Output Current		_	_	-0.5	μA	$V_{CC} = -50V, \ V_I = 0V$		
DC Current Gain DDA122LH DDA142JH		GI	56 56			_	$V_0 = -5V, I_0 = -10mA$		
Gain-Bandwidth Product*		f⊤		200	—	MHz	$V_{CE} = -10V$, $I_E = -5mA$, f = 100MHz		

* Transistor - For Reference Only

Electrical Characterist	ics @ $T_A = 25^{\circ}C$	ied	R1-Only Types				
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition	
Collector-Base Breakdown Voltag	BV _{CBO}	-50		_	V	I _C = -50μA	
Collector-Emitter Breakdown Voltage		BV _{CEO}	-40		_	V	I _C = -1mA
Emitter-Base Breakdown Voltage DDA122TH DDA142TH		BV _{EBO}	-5		_	V	$I_E = -50\mu A$ $I_E = -50\mu A$
Collector Cutoff Current		I _{CBO}			-0.5	μA	V _{CB} = -50V
Emitter Cutoff Current DDA122TH DDA142TH		I _{EBO}			-0.5 -0.5	μA	V _{EB} = -4V
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-0.3	V	$I_{C} = -5mA, I_{B} = -0.25mA$
DC Current Transfer Ratio DDA122TH DDA142TH		h _{FE}	100 100	250 250	600 600	_	$I_{C} = -1mA, V_{CE} = -5V$
Gain-Bandwidth Product*		f⊤		200		MHz	$V_{CE} = -10V$, $I_E = 5mA$, f = 100MHz

* Transistor - For Reference Only

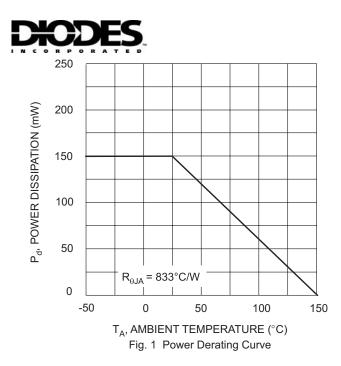
Ordering Information (Note 4)

Device	Packaging	Shipping
DDA122LH-7	SOT-563	3000/Tape & Reel
DDA142JH-7	SOT-563	3000/Tape & Reel
DDA122TH-7	SOT-563	3000/Tape & Reel
DDA142TH-7	SOT-563	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

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		F	<u>1</u> РХХҮ	́М	XXX = Product Type Marking Code (See Page 1) YM = Date Code Marking Y = Year ex: T = 2006 M = Month ex: 9 = September								
Date Code Key		5											
Year	20	02 2	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Code	1	۱	Р	R	S	Т	U	V	W	Х	Y	Z	
Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Code	1	2	3	4	5	6	7	8	9	0	N	D	



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