查询DDTB122LU_1供应商



DDTB (LO-R1) U

捷多邦,专业PCB打样工厂,24小时加急出货

PNP PRE-BIASED 500 mA SOT-323 SURFACE MOUNT TRANSISTOR

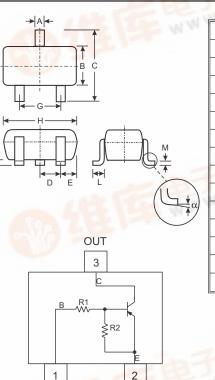
Features

- Epitaxial Planar Die Construction
- Complementary NPN Types Available (DDTD)
- Built-In Biasing Resistors
- Lead Free/RoHS Compliant (Note 2)
- "Green" Device (Note 3 & 4)

Mechanical Data

- Case: SOT-323
- Case Material: Molded Plastic, "Green" Molding Compound, Note 4. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Terminal Connections: See Diagram
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe)
- Marking: Date Code and Type Code, See Page 2
- Ordering Information (See Page 2)
- Weight: 0.006 grams (approximate)

P/N	R1 (NOM)	R2 (NOM)	Type Code
DDTB122LU	0.22KΩ	10KΩ	P75
DDTB142JU	0.47KΩ	10KΩ	P76
DDTB122TU	0.22KΩ	OPEN	P77
DDTB142TU	0.47KΩ	OPEN	P78





Schematic and Pin Configuration

IN

GND(+)

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characterist	Symbol	Value	Unit			
Supply Voltage, (3) to (2)		V _{CC}	-50	V		
Input Voltage, (1) to (2)	DDTB122LU DDTB142JU	V _{IN}	+5 to -6 +5 to -6	V		
Input Voltage, (2) to (1)	DDTB122TU DDTB142TU	V _{EBO (MAX)}	-5	DISC-V		
Output Current	All	Ic	-500	mA		
Power Dissipation (Note 1)		Pd	200	mW		
Thermal Resistance, Junction to Ambient Air (Note 1)		R _{0JA}	625	°C/W		
Operating and Storage and Temperature Range		T _j , T _{STG}	-55 to +150	°C		

Note: 1. Mounted on FR4 PC Board with recommended pad layout at http://www.diodes.com/datasheets/ap02001.pdf.

2. No purposefully added lead.

3. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

4. Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.





Electrical Characteristics @ T_A = 25°C unless otherwise specified

R1, R2 Types

Characteristic		Symbol	Symbol Min		Мах	Unit	Test Condition			
Input Voltage	DDTB122LU DDTB142JU	V _{I(off)}	-0.3 -0.3	_	_	V	$V_{CC}=-5V,\ I_O=-100\mu A$			
	DDTB122LU DDTB142JU	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	$I_0/I_1 = -50 \text{mA}/-2.5 \text{mA}$			
Input Current DDTB122LU DDTB142JU		I			-28 -13	mA	$V_I = -5V$			
Output Current		I _{O(off)}		_	-0.5	μA	$V_{CC} = -50V, V_1 = 0V$			
DC Current Gain DDTB122LU DDTB142JU		Gı	56 56	_	_	_	$V_{O} = -5V, I_{O} = -50mA$			
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 Voltage		BV _{CBO}	-50		_	V	I _C = -50μA
Collector-Emitter Breakdown Volt	Collector-Emitter Breakdown Voltage		-40		_	V	I _C = -1mA
Emitter-Base Breakdown Voltage DDTB122TU DDTB142TU		BV _{EBO}	-5		_	V	I _E = -50μA I _E = -50μA
Collector Cutoff Current		I _{CBO}			-0.5	μA	V _{CB} = -50V
Emitter Cutoff Current DDTB122TU DDTB142TU		I _{EBO}		_	-0.5 -0.5	μA	$V_{EB} = -4V$
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-0.3	V	I _C = -50mA, I _B = -2.5mA
DC Current Transfer Ratio DDTB122TU DDTB142TU		h _{FE}	100 100	250 250	600 600		$I_{C} = -5mA, V_{CE} = -5V$
Gain-Bandwidth Product*		f⊤		200		MHz	$V_{CE} = -10V$, $I_E = 5mA$, f = 100MHz

* Transistor - For Reference Only

Ordering Information (Note 4 & 5)

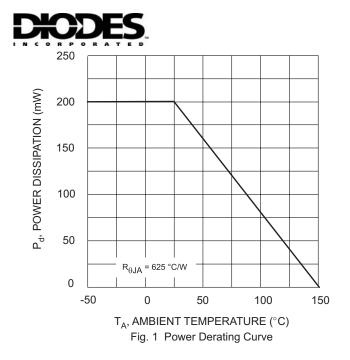
Device	Packaging	Shipping
DDTB122LU-7-F	SOT-323	3000/Tape & Reel
DDTB142JU-7-F	SOT-323	3000/Tape & Reel
DDTB122TU-7-F	SOT-323	3000/Tape & Reel
DDTB142TU-7-F	SOT-323	3000/Tape & Reel

Notes: 4. Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.

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

Marking Information

]									
Date Code Key	YM = E Y = Ye	XXX = Product Type Marking Code (See Page 1) YM = Date Code Marking Y = Year ex: T = 2006 M = Month ex: 9 = September											
Year	20	06	2007		2008		2009		2010	2011		2012	
Code	1		U		V		W		X			Z	
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	



NEW PRODUCT

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