



SMALL SIGNAL COMPLEMENTARY PRE-BIASED DUAL TRANSISTOR

Features

- Epitaxial Planar Die Construction
- Built-In Biasing Resistors
- Surface Mount Package Suited for Automated Assembly
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony-Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Part Number	R1(NOM)	R2(NOM)
DCX124EU	22kΩ	22kΩ
DCX144EU	47kΩ	47kΩ
DCX114YU	10kΩ	47kΩ
DCX123JU	2.2kΩ	47kΩ
DCX114EU	10kΩ	10kΩ
DCX143EU	4.7kΩ	4.7kΩ
DCX143ZU	4.7kΩ	47kΩ
DCX115EU	100kΩ	100kΩ

Mechanical Data

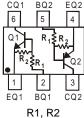
- Package: SOT363
- Package Material: Molded Plastic, "Green" Molding Compound;
 UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 <a>®3
- Weight: 0.006 grams (Approximate)

Part Number	R1 Only
DCX143TU	4.7kΩ
DCX114TU	10kΩ





Top View



R2

Device Schematic

R1 Only

Ordering Information (Notes 4, 5)

Product	Status	Compliance	Marking	Reel Size (inches)	Tape Width (mm)	Quantity per Reel
DCX124EU-7-F	Active	Standard	C17	7	8	3,000
DCX124EUQ-7-F	NRND (Use ACX124EUQ)	Automotive	C17	7	8	3,000
DCX124EUQ-13-F	NRND (Use ACX124EUQ)	Automotive	C17	13	8	10,000
DCX124EUQ-13R-F	NRND (Use ACX124EUQ)	Automotive	C17	13	8	10,000
DCX144EU-7-F	Active	Standard	C20	7	8	3,000
DCX144EU-7R-F	Active	Standard	C20	7	8	3,000
DCX144EUQ-7-F	Active	Automotive	C20	7	8	3,000
DCX144EUQ-7R-F	Active	Automotive	C20	7	8	3,000
DCX114YU-7-F	Active	Standard	C14	7	8	3,000
DCX114YU-7R-F	Active	Standard	C14	7	8	3,000
DCX114YUQ-7-F	NRND (Use ACX114YUQ)	Automotive	C14	7	8	3,000
DCX114YUQ-13-F	NRND (Use ACX114YUQ)	Automotive	C14	13	8	10,000
DCX114YUQ-13R-F	NRND (Use ACX114YUQ)	Automotive	C14	13	8	10,000
DCX123JU-7-F	Active	Standard	C06	7	8	3,000
DCX123JUQ-7-F	Active	Automotive	C06	7	8	3,000
DCX114EU-7-F	Active	Standard	C13	7	8	3,000
DCX114EU-13R-F	Active	Standard	C13	13	8	10,000



Ordering Information (Notes 4, 5) (continued)

Product	Status	Compliance	Marking	Reel Size (inches)	Tape Width (mm)	Quantity per Reel
DCX114EUQ-7-F	NRND (Use ACX114EUQ)	Automotive	C13	7	8	3,000
DCX114EUQ-13-F	NRND (Use ACX114EUQ)	Automotive	C13	13	8	10,000
DCX114EUQ-13R-F	NRND (Use ACX114EUQ)	Automotive	C13	13	8	10,000
DCX143TU-7-F	Active	Standard	C07	7	8	3,000
DCX143EU-7-F	Active	Standard	C08	7	8	3,000
DCX114TU-7-F	Active	Standard	C12	7	8	3,000
DCX143ZU-7-F	Active	Standard	C02	7	8	3,000
DCX115EU-7-F	Active	Standard	C01	7	8	3,000

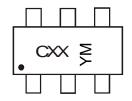
Notes:

- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and
- Lead-free.

 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</p>
 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.
 5. NRND = Not Recommended for New Design.

Marking Information

SOT363



CXX = Product Type Marking Code YM = Date Code Marking Y or \overline{Y} = Year (ex: I = 2021) M = Month (ex: D = December)

Date Code Key

Year 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 203 Code H I J K L M N O P R S T													
Code H I I K I M N O P R S T													
Code H I I K I M N O P R S T			•	·		_							
Year 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 203	Code	Н		J	K	L	М	N	0	Р	R	S	Т
	Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031



Absolute Maximum Ratings NPN Section (@ T_A = +25°C, unless otherwise specified.)

Chara	cteristic	Symbol	Value	Unit	
Supply Voltage <pin: (1)="" (6)="" to=""></pin:>		V _{CC}	50	V	
Input Voltage <pin: (1)="" (2)="" to=""></pin:>	DCX124EU DCX144EU DCX114YU DCX123JU DCX114EU DCX143TU DCX143EU DCX114TU DCX143ZU DCX115EU	V _{IN}	-10 to +40 -10 to +40 -6 to +40 -5 to +12 -10 to +40 -5V Max -10 to +30 -5V Max -10 to +30 -10 to +40	V	
Output Current	DCX124EU DCX144EU DCX114YU DCX123JU DCX114EU DCX143TU DCX143EU DCX143EU DCX144TU DCX143ZU DCX115EU	Io	30 30 70 100 50 100 100 100 100 20	mA	
Output Current		I _C (Max)	100	mA	

Absolute Maximum Ratings PNP Section (@ T_A = +25°C, unless otherwise specified.)

Chara	cteristic	Symbol	Value	Unit
Supply Voltage <pin: (3)="" (4)="" to=""></pin:>		Vcc	50	V
Input Voltage <pin: (4)="" (5)="" to=""></pin:>	DCX124EU DCX144EU DCX114YU DCX123JU DCX114EU DCX143TU DCX143EU DCX114TU DCX143ZU DCX115EU	Vin	+10 to -40 +10 to -40 +6 to -40 +5 to -12 +10 to -40 +5V Max +10 to -30 +5V Max +10 to -30 +10 to -40	V
Output Current	DCX124EU DCX144EU DCX114YU DCX123JU DCX114EU DCX143TU DCX143EU DCX114TU DCX143ZU DCX1145EU DCX115EU	Io	-30 -30 -70 -100 -50 -100 -100 -100 -100 -20	mA
Output Current	•	I _C (Max)	-100	mA

Thermal Characteristics (@ T_A = +25°C, unless otherwise specified.)

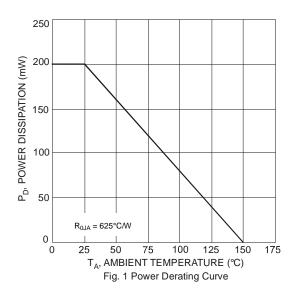
Characteristic	Symbol	Value	Unit
Power Dissipation (Notes 6, 7)	P_{D}	200	mW
Thermal Resistance, Junction to Ambient Air (Note 6)	$R_{ hetaJA}$	625	°C/W
Operating and Storage Temperature Range	T_J , T_{STG}	-55 to +150	°C

Notes: 6. Mounted on FR-4 PC Board with minimum recommended pad layout.

^{7. 150}mW per element must not be exceeded.



Thermal Characteristics (@ T_A = +25°C, unless otherwise specified.)





Electrical Characteristics NPN Section (@ T_A = +25°C, unless otherwise specified.)

Characteris	stic	Symbol	Min	Тур	Max	Unit	Test Condition
R1 Only (DCX143TU & DCX114		,		- 71-			
Collector-Base Breakdown Volta	age	BV_{CBO}	50	_	_	V	I _C = 50μA
Collector-Emitter Breakdown Vo	ltage	BV_{CEO}	50	_	_	V	$I_C = 1mA$
Emitter-Base Breakdown Voltag	е	BV _{EBO}	5	_		V	$I_E = 50\mu A$
Collector Cutoff Current		Ісво	_	_	0.5	μΑ	V _{CB} = 50V
Emitter Cutoff Current		I _{EBO}	_	_	0.5	μΑ	$V_{EB} = 4V$
Collector-Emitter Saturation Vol	tage	V _{CE(sat)}	_	_	0.3	V	$I_{C}/I_{B} = 2.5 \text{mA} / 0.25 \text{mA}$ DCX143TU $I_{C}/I_{B} = 1 \text{mA} / 0.1 \text{mA}$ DCX114TU
DC Current Transfer Ratio		h _{FE}	100	250	600	_	$I_C = 1mA$, $V_{CE} = 5V$
Input Resistor (R ₁) Tolerance		ΔR_1	-30	_	+30	%	_
Gain-Bandwidth Product		f _T	_	250	_	MHz	$V_{CE} = 10V, I_E = 5mA, f = 100MHz$
R1/R2 Only	IDCV424ELL		0.5	1 1	1	ı	T
	DCX124EU DCX144EU		0.5	1.1	-		
	DCX114YU	-	0.3	—			
	DCX123JU	†	0.5		1		
	DCX114EU	$V_{I(off)}$	0.5	1.1	_		$V_{CC} = 5V, I_{O} = 100\mu A$
	DCX143EU	1	0.5	1.16			
	DCX143ZU		0.5	_	1		
	DCX115EU		0.5	_			
Input Voltage	DCX124EU			1.9	3.0	V	$V_O = 0.3V$, $I_O = 5mA$
	DCX144EU			1.9	3.0		$V_O = 0.3V$, $I_O = 2mA$
	DCX114YU			_	1.4		$V_O = 0.3V$, $I_O = 1mA$
	DCX123JU	.,		_	1.1		$V_O = 0.3V$, $I_O = 5mA$
	DCX114EU	V _{I(on)}	_	1.9	3.0		$V_O = 0.3V$, $I_O = 10mA$
	DCX143EU			1.99	3.0		$V_O = 0.3V$, $I_O = 20mA$
	DCX143ZU			_	1.3		$V_O = 0.3V, I_O = 5mA$
	DCX115EU			_	3		$V_O = 0.3V$, $I_O = 1mA$
	DCX124EU						$I_0/I_1 = 10mA / 0.5mA$
	DCX144EU						$I_0/I_1 = 10 \text{mA} / 0.5 \text{mA}$
	DCX114YU						$I_0/I_1 = 5mA / 0.25mA$
Output Valtage	DCX123JU	1 ,,		0.4	0.0	V	$I_0/I_1 = 5mA / 0.25mA$
Output Voltage	DCX114EU	V _{O(on)}	_	0.1	0.3	V	I _O /I _I = 10mA / 0.5mA
	DCX143EU						$I_0/I_1 = 10mA / 0.5mA$
	DCX143ZU						$I_0/I_1 = 5mA / 0.25mA$
	DCX115EU						I _O /I _I = 10mA / 0.5mA
	DCX124EU				0.36		
	DCX144EU]			0.18		
	DCX114YU				0.88		
Input Current	DCX123JU	l _l	_	_	3.6	mA	V _I = 5V
·	DCX114EU DCX143EU	· ·			0.88		
	DCX143ZU	1			1.8		
	DCX115EU	†			0.15		
Output Current	20/11/020	I _{O(off)}	_	_	0.5	μA	$V_{CC} = 50V, V_{I} = 0V$
·	DCX124EU	0(011)	56				$V_0 = 5V$, $I_0 = 5mA$
	DCX124EUQ		60				$V_0 = 5V, I_0 = 5mA$
	DCX144EU	1	68				$V_0 = 5V, I_0 = 5mA$
	DCX114YU		68	1			$V_0 = 5V, I_0 = 10mA$
	DCX114YUQ	_	80				$V_0 = 5V, I_0 = 10mA$
DC Current Gain	DCX123JU	G _l	80	<u> </u>	_	_	V _O = 5V, I _O = 10mA
	DCX114EU		30	1			V _O = 5V, I _O = 5mA
	DCX143EU	1	50	1			V _O = 5V, I _O = 10mA
	DCX143ZU	1	80	1			$V_0 = 5V, I_0 = 10mA$
	DCX115EU	1	82				$V_O = 5V$, $I_O = 5mA$
Input Resistor (R ₁) Tolerance	<u> 1</u>	ΔR_1	-30	_	+30	%	_
Resistance Ratio Tolerance		$\Delta R_2/R_1$	-20	_	+20	%	_
Gain-Bandwidth Product		f _T	_	250	_	MHz	V _{CE} = 10V, I _E = 5mA, f = 100MHz
			1		<u> </u>		0L, .L 0 4 1001111L

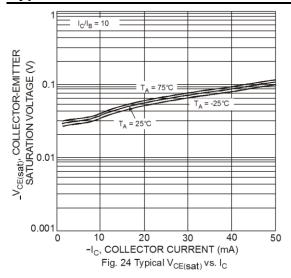


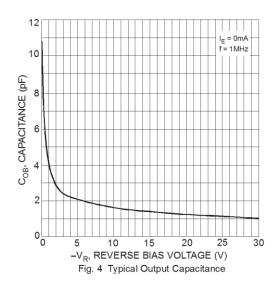
Electrical Characteristics PNP Section (@ TA = +25°C, unless otherwise specified.)

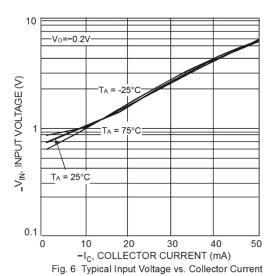
Characterist	i.	Cumbal	Min	Tim	May	l lm:4	Took Condition
Characterist R1 Only (DCX143TU & DCX114		Symbol	IVIII	Тур	Max	Unit	Test Condition
Collector-Base Breakdown Volta		BV _{CBO}	-50			V	I _C = -50μA
Collector-Emitter Breakdown Volta	•	BVCBO	-50			V	I _C = -1mA
Emitter-Base Breakdown Voltage	_	BV _{EBO}	-5			V	I _E = -50μA
Collector Cutoff Current	-		-5		-0.5	μA	V _{CB} = -50V
Emitter Cutoff Current		I _{CBO}			-0.5	•	V _{EB} = -4V
Emilier Culon Current		I _{EBO}	_		-0.5	μA	
Collector-Emitter Saturation Volt	age	V _{CE(sat)}	—	_	-0.3	V	$I_C/I_B = 2.5 \text{mA} / 0.25 \text{mA}$ DCX143TU $I_C/I_B = 1 \text{mA} / 0.1 \text{mA}$ DCX114TU
DC Current Transfer Ratio		h _{FE}	100	250	600		$I_C = -1 \text{mA}, V_{CE} = -5 \text{V}$
Input Resistor (R ₁) Tolerance		ΔR_1	-30		+30	%	_
Gain-Bandwidth Product		f _T		250		MHz	$V_{CE} = -10V$, $I_{E} = -5mA$, $f = 100MHz$
R1/R2 Only	DCX124EU		-0.5	1.1	1	1	T
	DCX124EU DCX144EU		-0.5	-1.1 -1.1			
	DCX144E0		-0.3	-			
	DCX123JU		-0.5				
	DCX114EU	$V_{I(off)}$	-0.5	-1.1	<u> </u>		$V_{CC} = -5V, I_{O} = -100\mu A$
	DCX143EU		-0.5	-1.16			
	DCX143ZU		-0.5	_			
	DCX115EU		-0.5				
Input Voltage	DCX124EU			-1.9	-3.0	V	$V_O = -0.3V$, $I_O = -5mA$
	DCX144EU			-1.9	-3.0		$V_0 = -0.3V$, $I_0 = -2mA$
	DCX114YU			_	-1.4		$V_0 = -0.3V$, $I_0 = -1mA$
	DCX123JU				-1.1		$V_0 = -0.3V$, $I_0 = -5mA$
	DCX114EU	$V_{I(on)}$		-1.9	-3.0		$V_0 = -0.3V$, $I_0 = -10mA$
	DCX143EU			-2.5	-3.0		$V_0 = -0.3V$, $I_0 = -20mA$
	DCX143ZU				-1.3		$V_0 = -0.3V$, $I_0 = -5mA$
	DCX115EU				-3		$V_0 = -0.3V$, $I_0 = -5 \text{IMA}$ $V_0 = -0.3V$, $I_0 = -1 \text{mA}$
	DCX124EU				-5		
	DCX124EU						$I_O/I_I = -10$ mA / -0.5mA
	DCX144E0						I _O /I _I = -10mA / -0.5mA
	DCX11410						$I_{O}/I_{I} = -5\text{mA} / -0.25\text{mA}$
Output Voltage		$V_{O(on)}$		-0.1	-0.3	V	$I_{O}/I_{I} = -5\text{mA} / -0.25\text{mA}$
	DCX114EU						$I_0/I_1 = -10\text{mA} / -0.5\text{mA}$
	DCX143EU						$I_0/I_1 = -10\text{mA} / -0.5\text{mA}$
	DCX143ZU DCX115EU						$I_0/I_1 = -5mA / -0.25mA$ $I_0/I_1 = -10mA / -0.5mA$
	DCX124EU				-0.36		10/1 = -10111A / -0.3111A
	DCX144EU				-0.18		
	DCX114YU				-0.88		
	DCX123JU				-3.6		., -,
Input Current	DCX114EU	l _l	_	_	-0.88	mA	V _I = -5V
	DCX143EU				-0.88		
	DCX143ZU				-1.8		
	DCX115EU				-0.15		
Output Current		I _{O(off)}	_	_	-0.5	μΑ	$V_{CC} = -50V, V_I = 0V$
	DCX124EU		56				$V_0 = -5V, I_0 = -5mA$
	DCX124EUQ		60				$V_0 = -5V, I_0 = -5mA$
	DCX144EU		68				$V_O = -5V$, $I_O = -5mA$
	DCX114YU		68				$V_O = -5V$, $I_O = -10mA$
DC Current Gain	DCX114YUQ	<u> </u>	80				$V_0 = -5V$, $I_0 = -10mA$
Do Guileit Gaill	DCX123JU	Gı	80	_	_	_	$V_O = -5V$, $I_O = -10mA$
	DCX114EU		30				$V_O = -5V, I_O = -5mA$
	DCX143EU		40				$V_O = -5V$, $I_O = -10mA$
	DCX143ZU		80				$V_O = -5V, I_O = -10mA$
	DCX115EU		82				$V_{O} = -5V, I_{O} = -5mA$
Input Resistor (R ₁) Tolerance		ΔR_1	-30	_	+30	%	_
Resistance Ratio Tolerance		$\Delta R_2/R_1$	-20		+20	%	_
Gain-Bandwidth Product		f⊤	_	250	_	MHz	$V_{CE} = -10V$, $I_{E} = -5mA$, $f = 100MHz$
		• • • • • • • • • • • • • • • • • • • •					

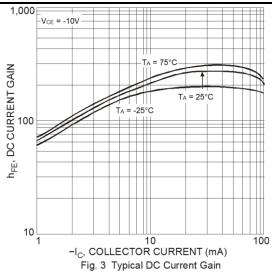


Typical Curves – DCX123JU PNP Section (@ T_A = +25°C, unless otherwise specified.)









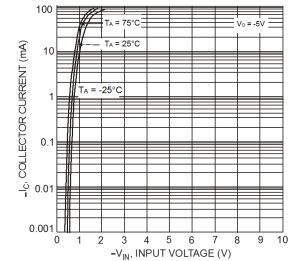
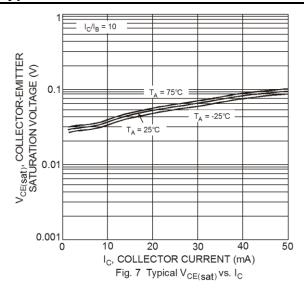
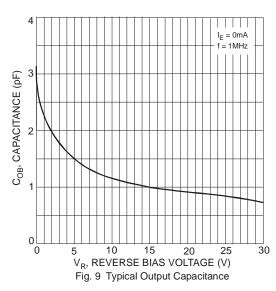


Fig. 5 Typical Collector Current vs. Input Voltage



Typical Curves – DCX123JU NPN Section (@ T_A = +25°C, unless otherwise specified.)





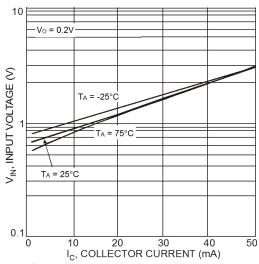
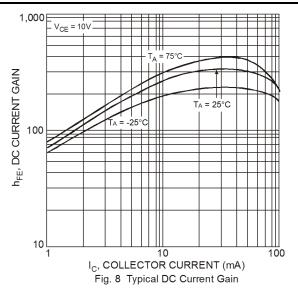


Fig. 11 Typical Input Voltage vs. Collector Current



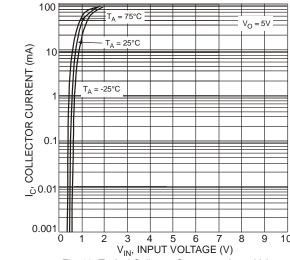
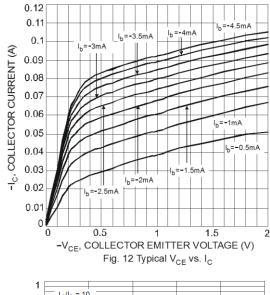
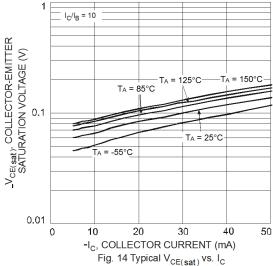


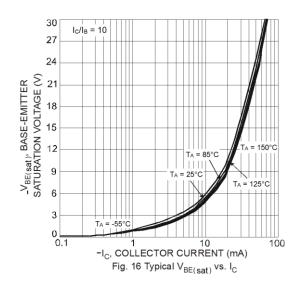
Fig. 10 Typical Collector Current vs. Input Voltage

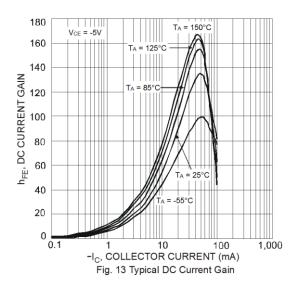


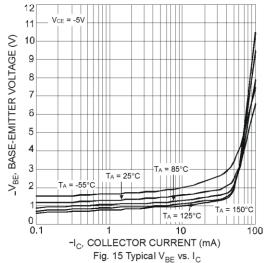
Typical Curves – DCX143EU PNP Section (@ T_A = +25°C, unless otherwise specified.)

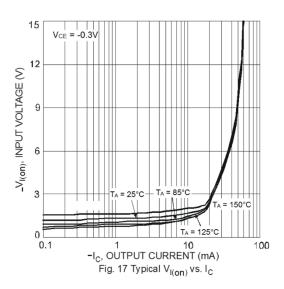






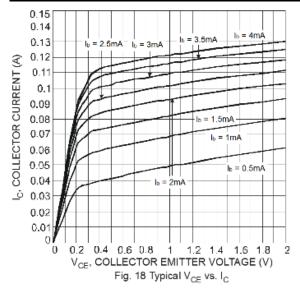


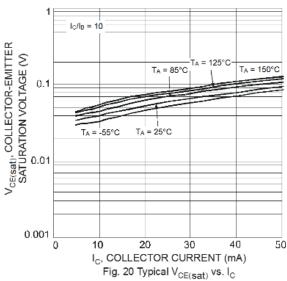


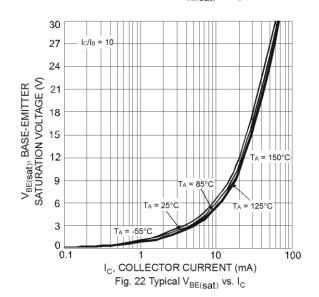


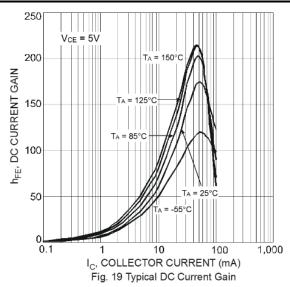


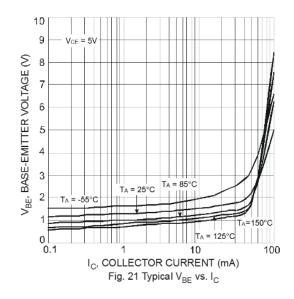
Typical Curves – DCX143EU NPN Section (@ T_A = +25°C, unless otherwise specified.)

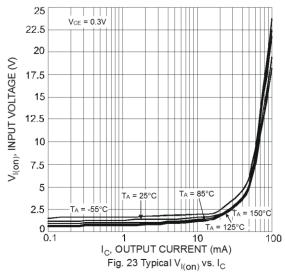






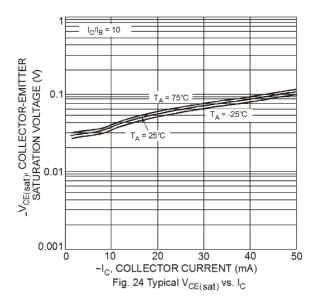


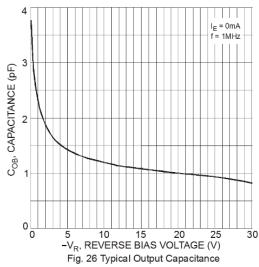


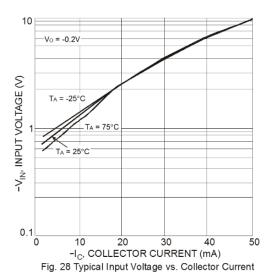


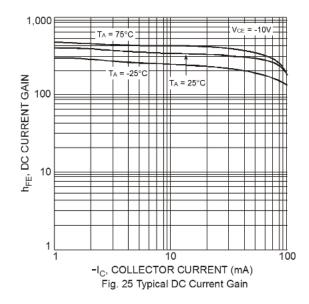


Typical Curves - DCX114TU PNP Section (@ T_A = +25°C, unless otherwise specified.)









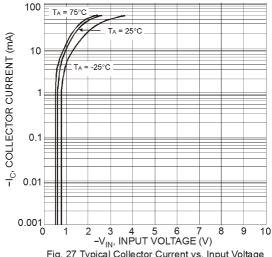
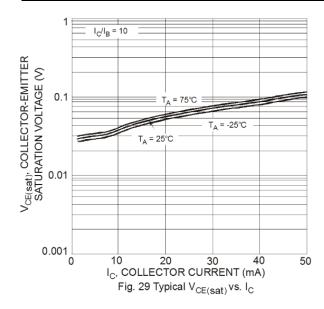
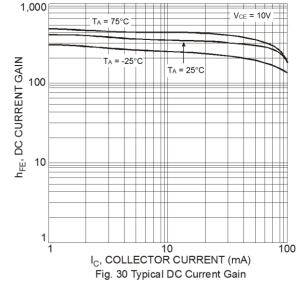


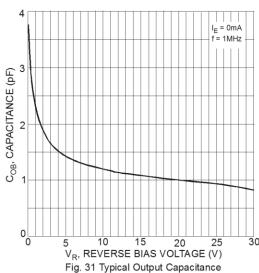
Fig. 27 Typical Collector Current vs. Input Voltage

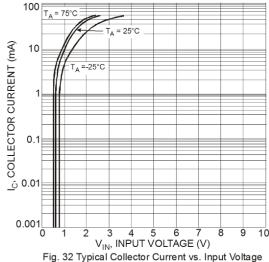


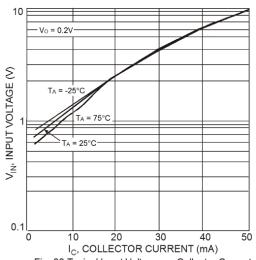
Typical Curves – DCX114TU NPN Section (@ T_A = +25°C, unless otherwise specified.)









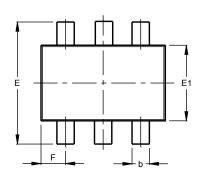


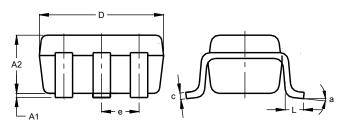


Package Outline Dimensions

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

SOT363



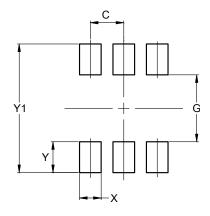


SOT363						
Dim	Min	Max	Тур			
A1	0.00	0.10	0.05			
A2	0.90	1.00	0.95			
b	0.10	0.30	0.25			
С	0.10	0.22	0.11			
D	1.80	2.20	2.15			
Е	2.00	2.20	2.10			
E1	1.15	1.35	1.30			
е	C	.650 E	BSC			
F	0.40	0.45	0.425			
L	0.25	0.40	0.30			
а	0°	8°				
All I	Dimen	sions	in mm			

Suggested Pad Layout

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

SOT363



Dimensions	Value
Dillicitatoria	(in mm)
С	0.650
G	1.300
Х	0.420
Y	0.600
Y1	2.500



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