

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: DCX124EUQ-7-F
Manufacturer: Diodes Incorporated
Package: 6-TSSOP, SC-88, SOT-363
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/diodes-incorporated/dcx124euq-7-f.html>

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Features

- Supply Voltage $V_O = 50V$
- Range of Bias 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)**
- The DCX (XXXX) UQs are suitable for automotive applications requiring specific change control; these parts are AEC-Q101 qualified, PPAP capable, and manufactured in IATF 16949 certified facilities.**

<https://www.diodes.com/quality/product-definitions/>

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 @3
- Weight: 0.006 grams (Approximate)

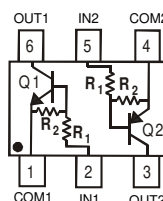
Part Number	R1(NOM)	R2(NOM)
DCX124EU	22k Ω	22k Ω
DCX144EU	47k Ω	47k Ω
DCX114YU	10k Ω	47k Ω
DCX123JU	2.2k Ω	47k Ω
DCX114EU	10k Ω	10k Ω
DCX143EU	4.7k Ω	4.7k Ω
DCX143ZU	4.7k Ω	47k Ω
DCX115EU	100k Ω	100k Ω

Part Number	R1 Only
DCX143TU	4.7k Ω
DCX114TU	10k Ω

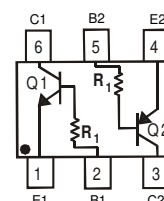
SOT363



Top View



R1, R2



R1 Only

Device Schematic

Ordering Information (Notes 4, 5)

Part Number	Status	Package	Marking	Reel Size (inches)	Tape Width (mm)	Packing	
						Qty.	Carrier
DCX124EU-7-F	Active	SOT363	C17	7	8	3,000	Reel
DCX124EU-13-F	Active	SOT363	C17	13	8	10,000	Reel
DCX124EUQ-7-F	NRND (Use ACX124EUQ)	SOT363	C17	7	8	3,000	Reel
DCX124EUQ-13-F	NRND (Use ACX124EUQ)	SOT363	C17	13	8	10,000	Reel
DCX124EUQ-13R-F	NRND (Use ACX124EUQ)	SOT363	C17	13	8	10,000	Reel
DCX144EU-7-F	Active	SOT363	C20	7	8	3,000	Reel
DCX144EU-7R-F	Active	SOT363	C20	7	8	3,000	Reel
DCX144EUQ-7-F	Active	SOT363	C20	7	8	3,000	Reel
DCX144EUQ-7R-F	Active	SOT363	C20	7	8	3,000	Reel
DCX114YU-7-F	Active	SOT363	C14	7	8	3,000	Reel
DCX114YU-7R-F	Active	SOT363	C14	7	8	3,000	Reel
DCX114YUQ-7-F	NRND (Use ACX114YUQ)	SOT363	C14	7	8	3,000	Reel
DCX114YUQ-13-F	NRND (Use ACX114YUQ)	SOT363	C14	13	8	10,000	Reel
DCX114YUQ-13R-F	NRND (Use ACX114YUQ)	SOT363	C14	13	8	10,000	Reel
DCX123JU-7-F	Active	SOT363	C06	7	8	3,000	Reel
DCX123JU-7R-F	Active	SOT363	C06	7	8	3,000	Reel
DCX123JUQ-7-F	Active	SOT363	C06	7	8	3,000	Reel
DCX114EU-7-F	Active	SOT363	C13	7	8	3,000	Reel
DCX114EU-13R-F	Active	SOT363	C13	13	8	10,000	Reel

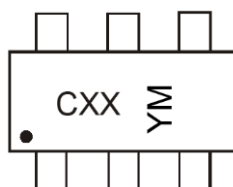
Ordering Information (Notes 4, 5) (continued)

Part Number	Status	Package	Marking	Reel Size (inches)	Tape Width (mm)	Packing	
						Qty.	Carrier
DCX114EUQ-7-F	NRND (Use ACX114EUQ)	SOT363	C13	7	8	3,000	Reel
DCX114EUQ-13-F	NRND (Use ACX114EUQ)	SOT363	C13	13	8	10,000	Reel
DCX114EUQ-13R-F	NRND (Use ACX114EUQ)	SOT363	C13	13	8	10,000	Reel
DCX143TU-7-F	Active	SOT363	C07	7	8	3,000	Reel
DCX143EU-7-F	Active	SOT363	C08	7	8	3,000	Reel
DCX143EU-7R-F	Active	SOT363	C08	7	8	3,000	Reel
DCX114TU-7-F	Active	SOT363	C12	7	8	3,000	Reel
DCX143ZU-7-F	Active	SOT363	C02	7	8	3,000	Reel
DCX143ZU-7R-F	Active	SOT363	C02	7	8	3,000	Reel
DCX115EU-7-F	Active	SOT363	C01	7	8	3,000	Reel

- 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.
 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 $\bar{Y}$ = Year (ex: L = 2024)
M = Month (ex: D = December)

Date Code Key

Year	2010	-	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Code	X	-	L	M	N	P	R	S	T	U	V	W

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

Absolute Maximum Ratings NPN Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Supply Voltage		V_O	50	V
Input Voltage	DCX124EU	V_I	-10 to +40	V
	DCX144EU		-10 to +40	
	DCX114YU		-6 to +40	
	DCX123JU		-5 to +12	
	DCX114EU		-10 to +40	
	DCX143TU		-5V Max	
	DCX143EU		-10 to +30	
	DCX114TU		-5V Max	
	DCX143ZU		-10 to +30	
	DCX115EU		-10 to +40	
Output Current	DCX124EU	I_O	30	mA
	DCX144EU		30	
	DCX114YU		70	
	DCX123JU		100	
	DCX114EU		50	
	DCX143TU		100	
	DCX143EU		100	
	DCX114TU		100	
	DCX143ZU		100	
	DCX115EU		20	
Peak Output Current		I_{CM}	100	mA

Absolute Maximum Ratings PNP Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Supply Voltage		V_O	50	V
Input Voltage	DCX124EU	V_I	+10 to -40	V
	DCX144EU		+10 to -40	
	DCX114YU		+6 to -40	
	DCX123JU		+5 to -12	
	DCX114EU		+10 to -40	
	DCX143TU		+5V Max	
	DCX143EU		+10 to -30	
	DCX114TU		+5V Max	
	DCX143ZU		+5 to -30	
	DCX115EU		+10 to -40	
Output Current	DCX124EU	I_O	-30	mA
	DCX144EU		-30	
	DCX114YU		-70	
	DCX123JU		-100	
	DCX114EU		-50	
	DCX143TU		-100	
	DCX143EU		-100	
	DCX114TU		-100	
	DCX143ZU		-100	
	DCX115EU		-20	
Peak Output Current		I_{CM}	-100	mA

Thermal Characteristics (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Power Dissipation (Notes 6, 7)	P_D	200	mW
Thermal Resistance, Junction to Ambient Air (Note 6)	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Notes: 6. Mounted on FR-4 PC Board with minimum recommended pad layout.
7. 150mW per element must not be exceeded.

Thermal Characteristics (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

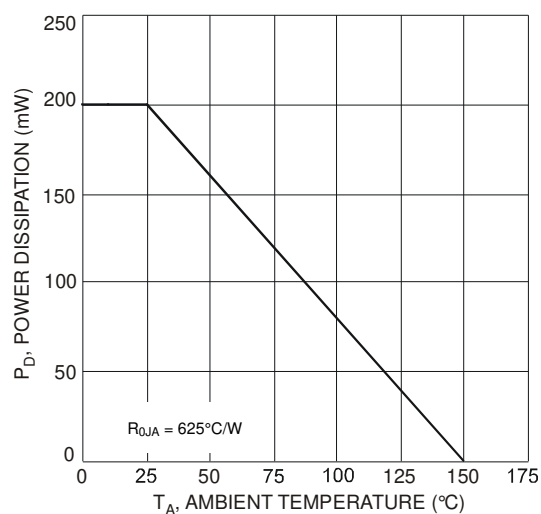


Fig. 1 Power Derating Curve

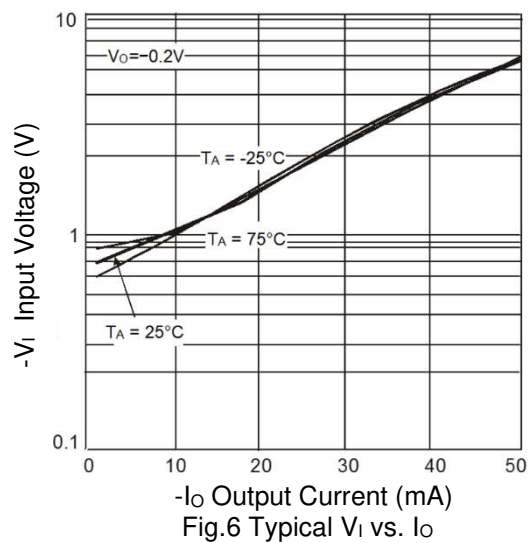
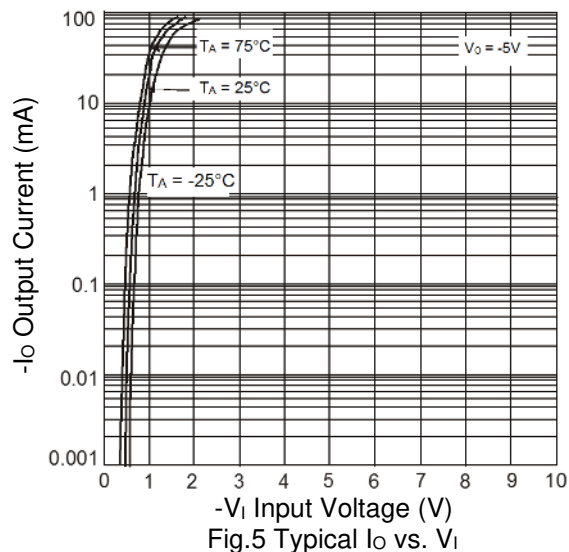
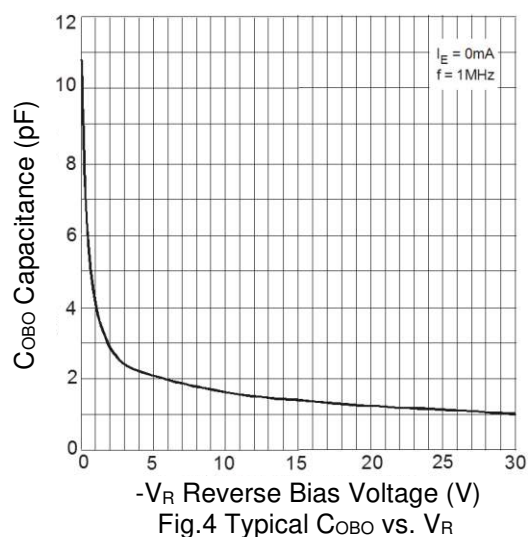
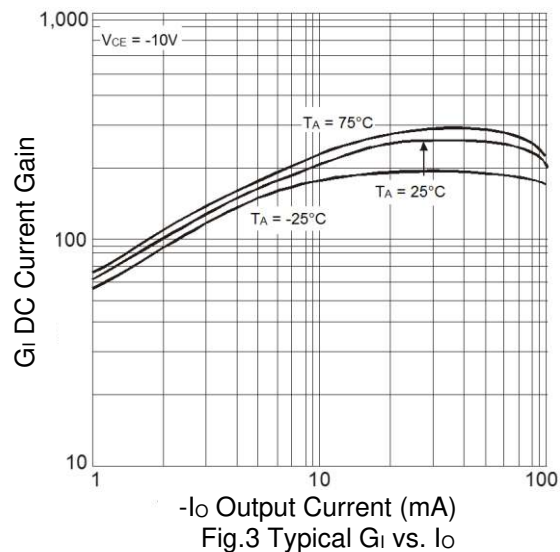
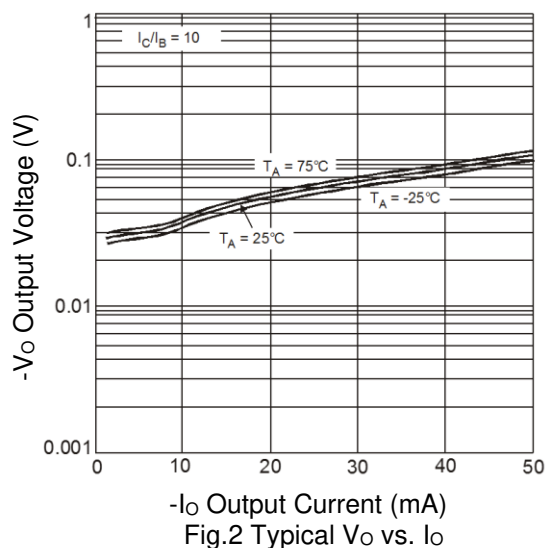
Electrical Characteristics NPN Section (@ T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Condition
R1 Only (DCX143TU & DCX114TU)							
Collector-Base Breakdown Voltage		BV _{CBO}	50	—	—	V	I _C = 50μA
Collector-Emitter Breakdown Voltage		BV _{CEO}	50	—	—	V	I _C = 1mA
Emitter-Base Breakdown Voltage		BV _{EBO}	5	—	—	V	I _E = 50μA
Collector Cutoff Current		I _{CBO}	—	—	0.5	μA	V _{CB} = 50V
Emitter Cutoff Current		I _{EBO}	—	—	0.5	μA	V _{EB} = 4V
Collector-Emitter Saturation Voltage		V _{CE(sat)}	—	—	0.3	V	I _C /I _B = 2.5mA / 0.25mA DCX143TU I _C /I _B = 1mA / 0.1mA 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							
Input Voltage	DCX124EU	V _{I(off)}	0.5	1.1	—	V	V _{CC} = 5V, I _O = 100μA
	DCX144EU		0.5	1.1			
	DCX114YU		0.3	—			
	DCX123JU		0.5	—			
	DCX114EU		0.5	1.1			
	DCX143EU		0.5	1.16			
	DCX143ZU		0.5	—			
	DCX115EU		0.5	—			
	DCX124EU	V _{I(on)}	—	1.9	3.0		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			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
Output Voltage	DCX124EU	V _{O(on)}	—	0.1	0.3	V	I _O /I _I = 10mA / 0.5mA
	DCX144EU						I _O /I _I = 10mA / 0.5mA
	DCX114YU						I _O /I _I = 5mA / 0.25mA
	DCX123JU						I _O /I _I = 5mA / 0.25mA
	DCX114EU						I _O /I _I = 10mA / 0.5mA
	DCX143EU						I _O /I _I = 10mA / 0.5mA
	DCX143ZU						I _O /I _I = 5mA / 0.25mA
	DCX115EU						I _O /I _I = 10mA / 0.5mA
Input Current	DCX124EU	I _I	—	—	0.36	mA	V _I = 5V
	DCX144EU				0.18		
	DCX114YU				0.88		
	DCX123JU				3.6		
	DCX114EU				0.88		
	DCX143EU				0.88		
	DCX143ZU				1.8		
	DCX115EU				0.15		
Output Current		I _{O(off)}	—	—	0.5	μA	V _{CC} = 50V, V _I = 0V
DC Current Gain	DCX124EU	G _I	56	—	—	—	V _O = 5V, I _O = 5mA
	DCX124EUQ		60				V _O = 5V, I _O = 5mA
	DCX144EU		68				V _O = 5V, I _O = 5mA
	DCX114YU		68				V _O = 5V, I _O = 10mA
	DCX114YUQ		80				V _O = 5V, I _O = 10mA
	DCX123JU		80				V _O = 5V, I _O = 10mA
	DCX114EU		30				V _O = 5V, I _O = 5mA
	DCX143EU		50				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		ΔR ₂ /R ₁	-20	—	+20	%	—
Gain-Bandwidth Product		f _T	—	250	—	MHz	V _{CE} = 10V, I _E = 5mA, f = 100MHz

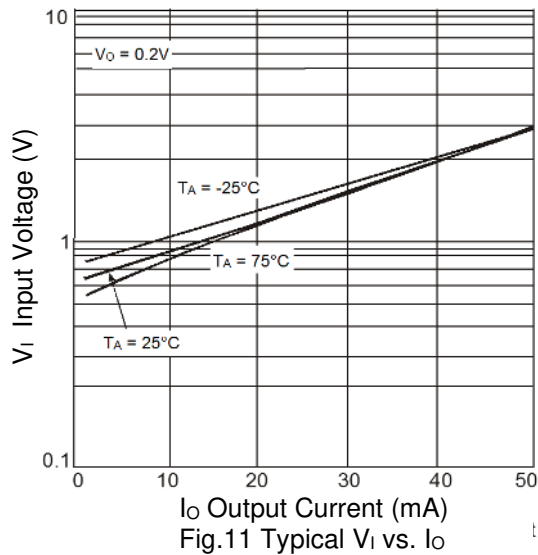
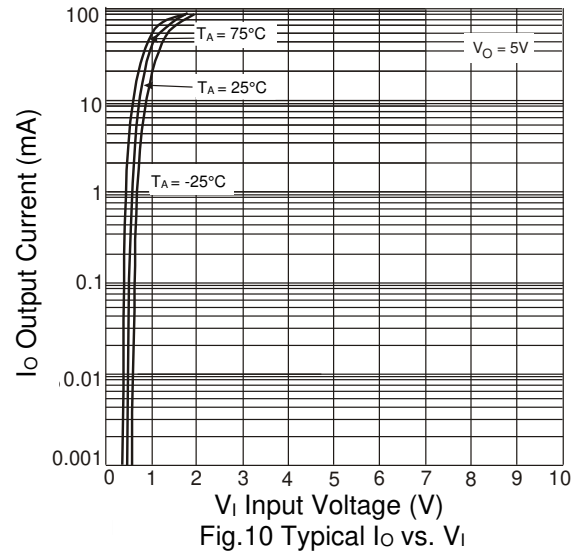
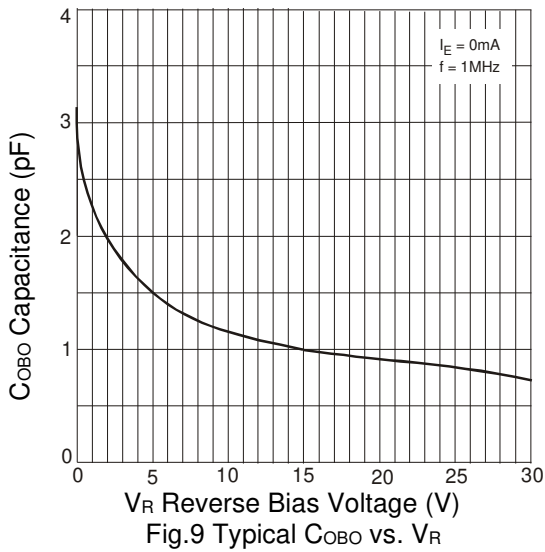
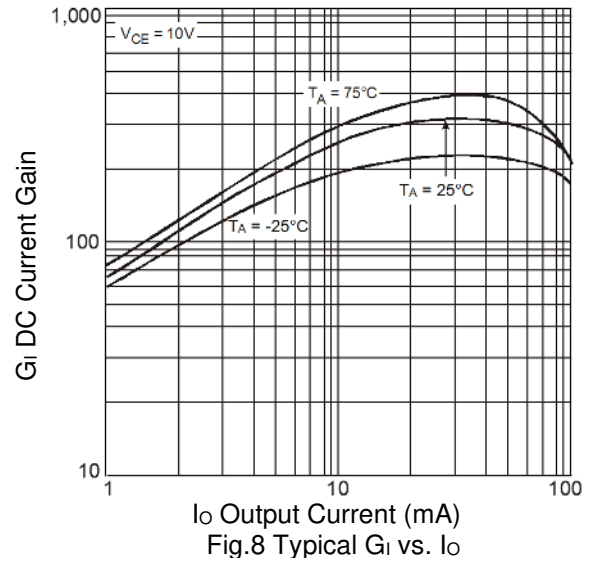
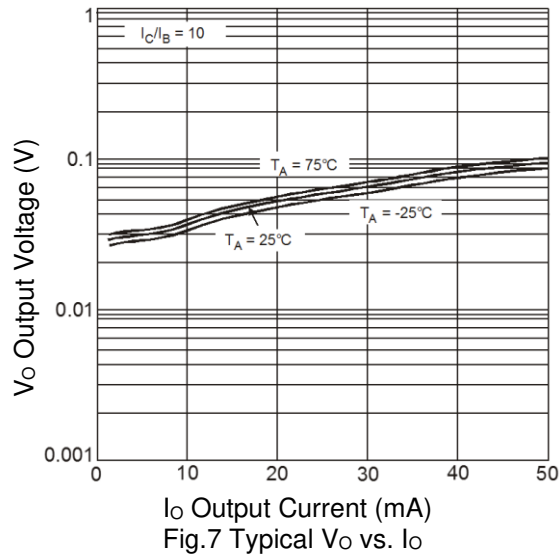
Electrical Characteristics PNP Section (@ T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Condition
R1 Only (DCX143TU & DCX114TU)							
Collector-Base Breakdown Voltage		BV _{CBO}	-50	—	—	V	I _C = -50μA
Collector-Emitter Breakdown Voltage		BV _{CEO}	-50	—	—	V	I _C = -1mA
Emitter-Base Breakdown Voltage		BV _{EBO}	-5	—	—	V	I _E = -50μA
Collector Cutoff Current		I _{CBO}	—	—	-0.5	μA	V _{CB} = -50V
Emitter Cutoff Current		I _{EBO}	—	—	-0.5	μA	V _{EB} = -4V
Collector-Emitter Saturation Voltage		V _{CE(sat)}	—	—	-0.3	V	I _C /I _B = 2.5mA / 0.25mA DCX143TU I _C /I _B = 1mA / 0.1mA 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							
Input Voltage	DCX124EU	V _{I(off)}	-0.5	-1.1	—	V	V _{CC} = -5V, I _O = -100μA
	DCX144EU		-0.5	-1.1			
	DCX114YU		-0.3	—			
	DCX123JU		-0.5	—			
	DCX114EU		-0.5	-1.1			
	DCX143EU		-0.5	-1.16			
	DCX143ZU		-0.5	—			
	DCX115EU		-0.5	—			
	DCX124EU	V _{I(on)}	—	-1.9	-3.0		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		—	-1.9	-3.0		V _O = -0.3V, I _O = -10mA
	DCX143EU		—	-2.5	-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
Output Voltage	DCX124EU	V _{O(on)}	—	-0.1	-0.3	V	I _O /I _I = -10mA / -0.5mA
	DCX144EU						I _O /I _I = -10mA / -0.5mA
	DCX114YU						I _O /I _I = -5mA / -0.25mA
	DCX123JU						I _O /I _I = -5mA / -0.25mA
	DCX114EU						I _O /I _I = -10mA / -0.5mA
	DCX143EU						I _O /I _I = -10mA / -0.5mA
	DCX143ZU						I _O /I _I = -5mA / -0.25mA
	DCX115EU						I _O /I _I = -10mA / -0.5mA
Input Current	DCX124EU	I _I	—	—	-0.36	mA	V _I = -5V
	DCX144EU				-0.18		
	DCX114YU				-0.88		
	DCX123JU				-3.6		
	DCX114EU				-0.88		
	DCX143EU				-0.88		
	DCX143ZU				-1.8		
	DCX115EU				-0.15		
Output Current		I _{O(off)}	—	—	-0.5	μA	V _{CC} = -50V, V _I = 0V
DC Current Gain	DCX124EU	G _i	56	—	—	—	V _O = -5V, I _O = -5mA
	DCX124EUQ						V _O = -5V, I _O = -5mA
	DCX144EU						V _O = -5V, I _O = -5mA
	DCX114YU						V _O = -5V, I _O = -10mA
	DCX114YUQ						V _O = -5V, I _O = -10mA
	DCX123JU						V _O = -5V, I _O = -10mA
	DCX114EU						V _O = -5V, I _O = -5mA
	DCX143EU						V _O = -5V, I _O = -10mA
	DCX143ZU						V _O = -5V, I _O = -10mA
	DCX115EU						V _O = -5V, I _O = -5mA
Input Resistor (R ₁) Tolerance		ΔR ₁	-30	—	+30	%	—
Resistance Ratio Tolerance		ΔR ₂ /R ₁	-20	—	+20	%	—
Gain-Bandwidth Product		f _T	—	250	—	MHz	V _{CE} = -10V, I _E = -5mA, f = 100MHz

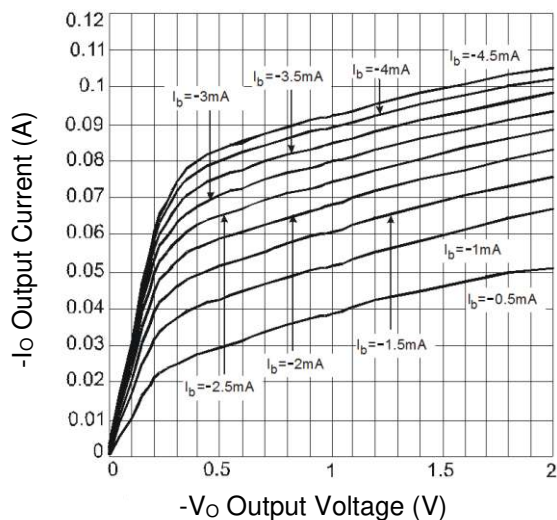
Typical Curves – DCX123JU PNP Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)



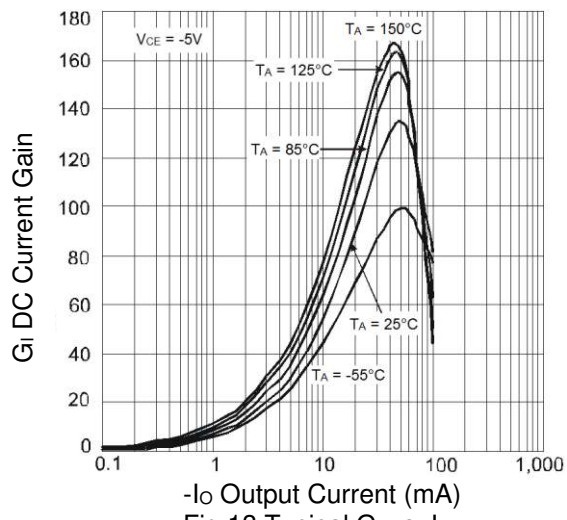
Typical Curves – DCX123JU NPN Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)



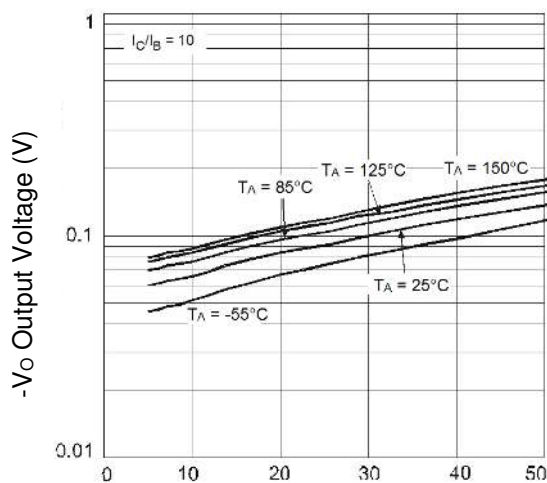
Typical Curves – DCX143EU PNP Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)



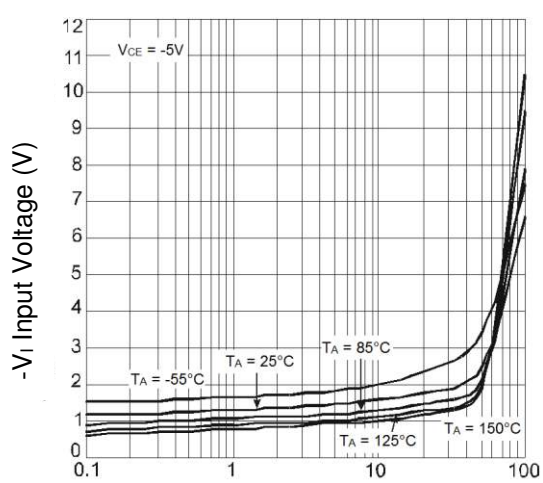
- V_O Output Voltage (V)
Fig.12 Typical I_O vs. V_O



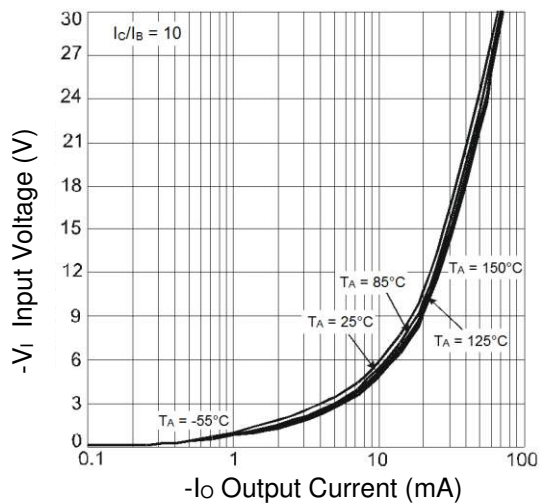
- I_O Output Current (mA)
Fig.13 Typical G_I vs. I_O



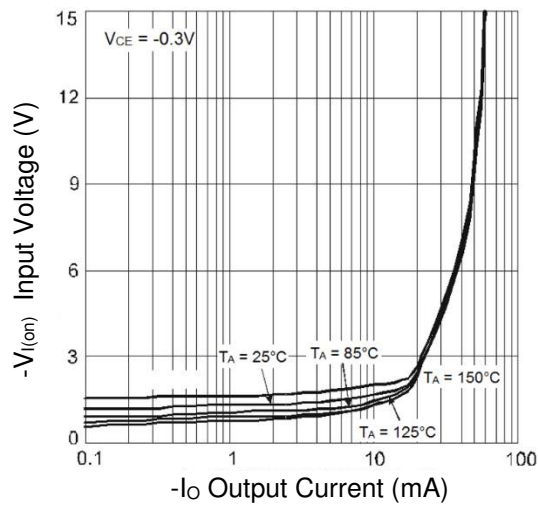
- I_O Output Current (mA)
Fig.14 Typical V_O vs. I_O



- I_O Output Current (mA)
Fig.15 Typical V_I vs. I_O

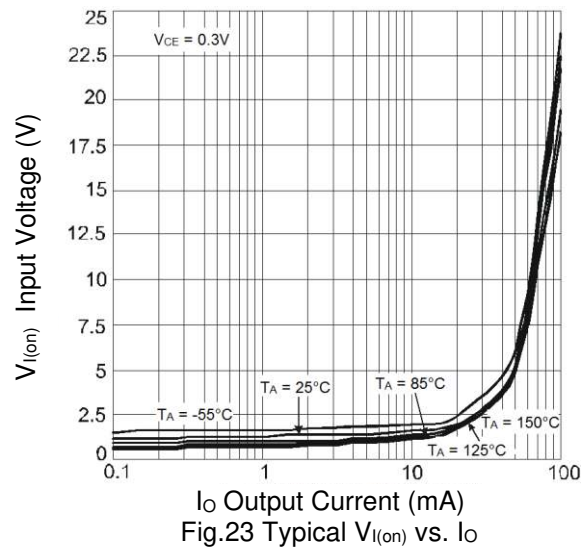
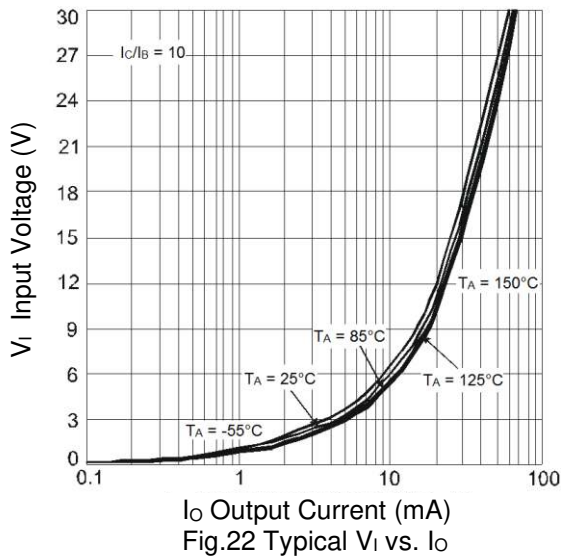
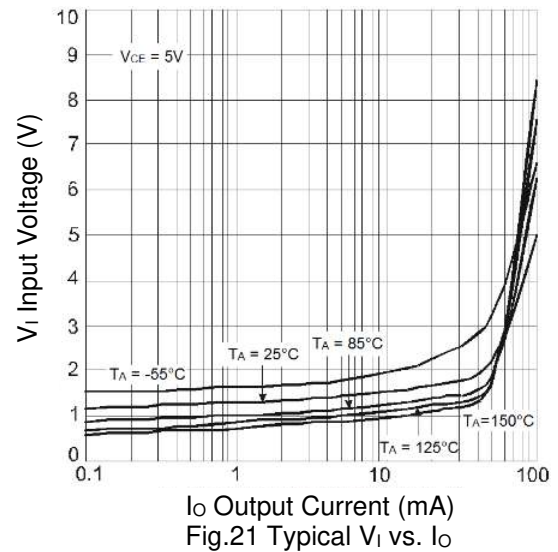
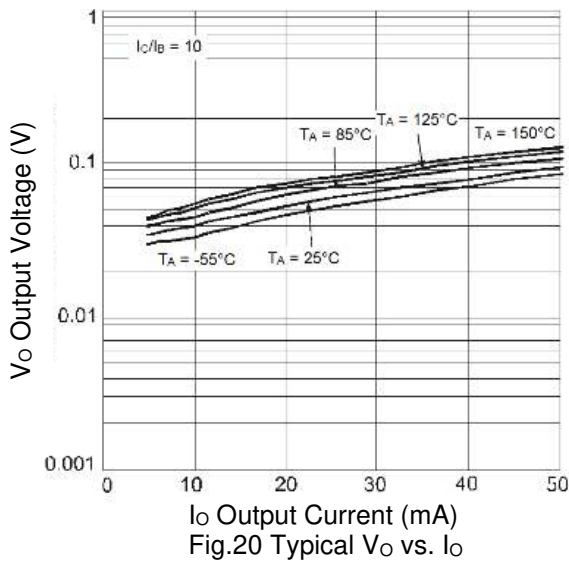
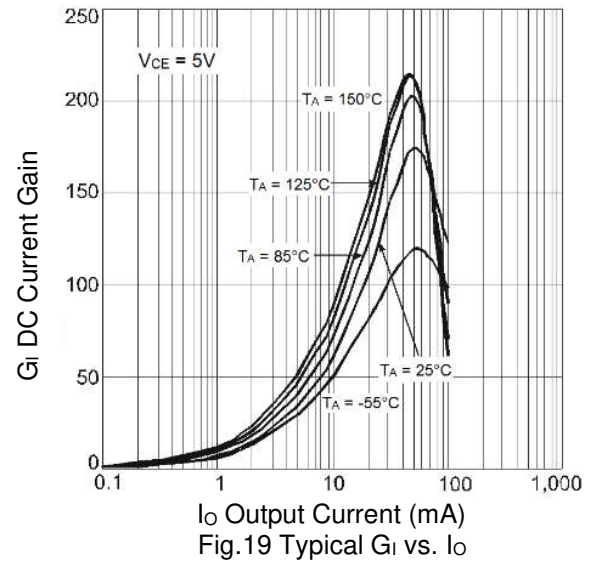
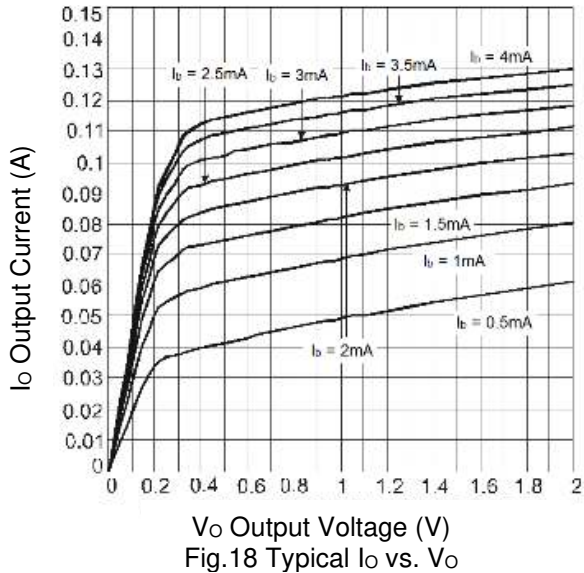


- I_O Output Current (mA)
Fig.16 Typical V_I vs. I_O



- I_O Output Current (mA)
Fig.17 Typical $V_{I(on)}$ vs. I_O

Typical Curves – DCX143EU NPN Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)



Typical Curves – DCX114TU PNP Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

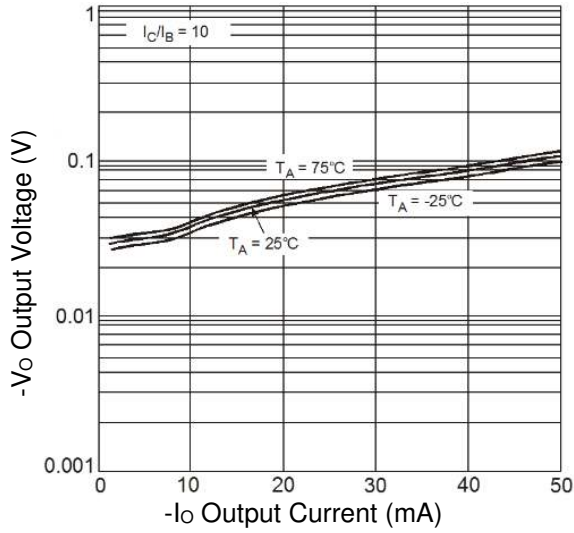


Fig.24 Typical V_O vs. I_O

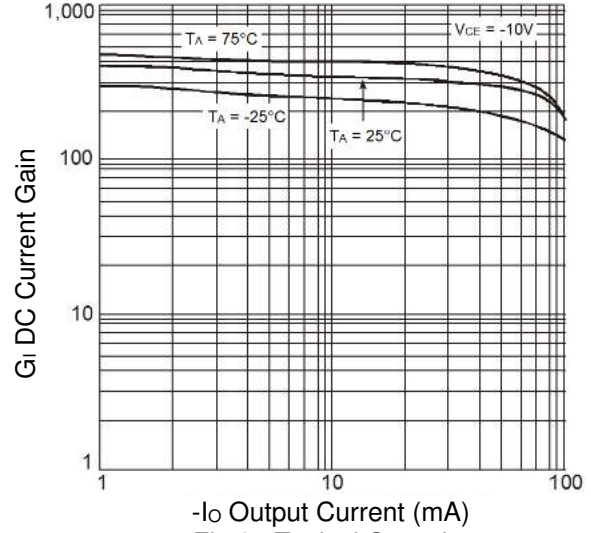


Fig.25 Typical G_I vs. I_O

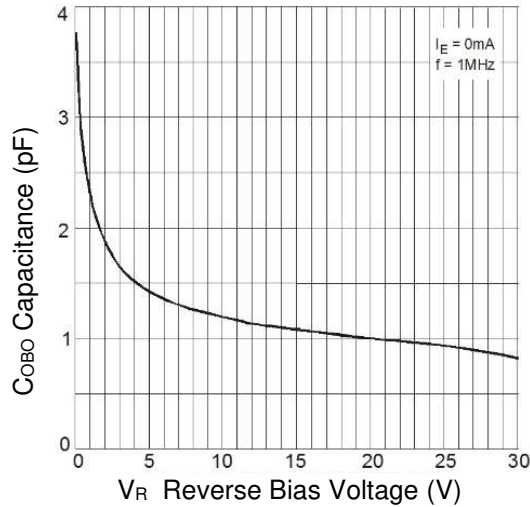


Fig.26 Typical C_{OBO} vs. V_R

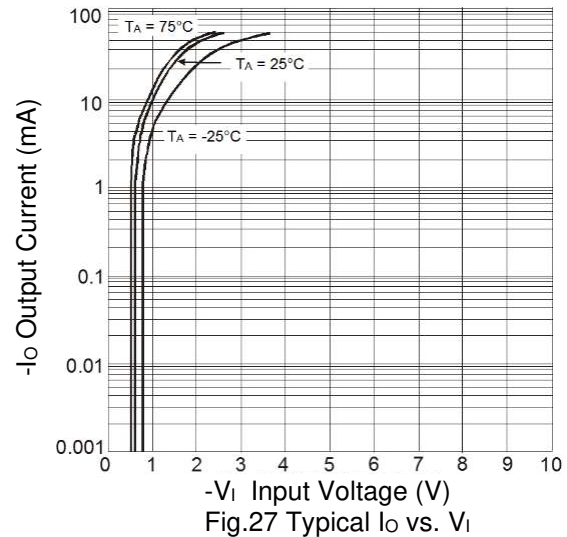


Fig.27 Typical I_O vs. V_I

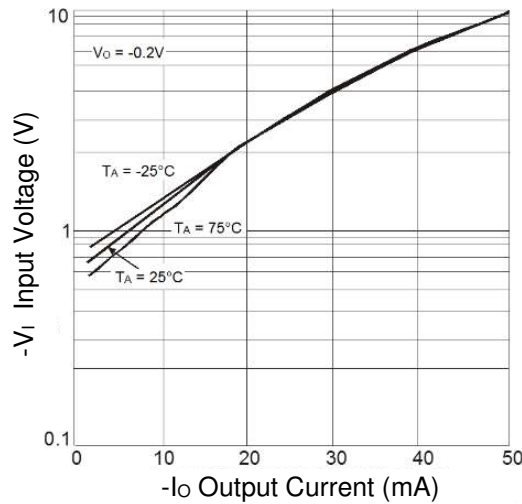
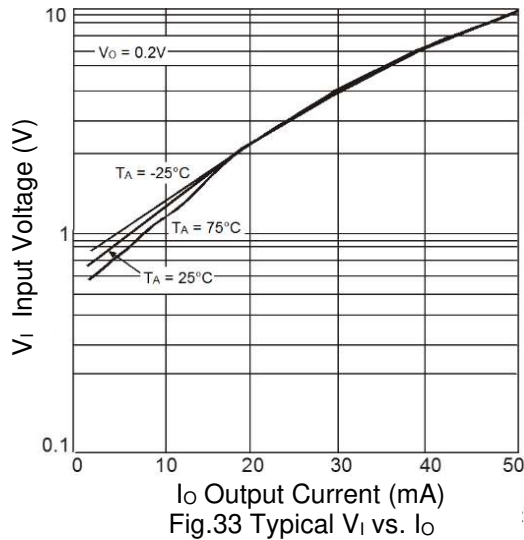
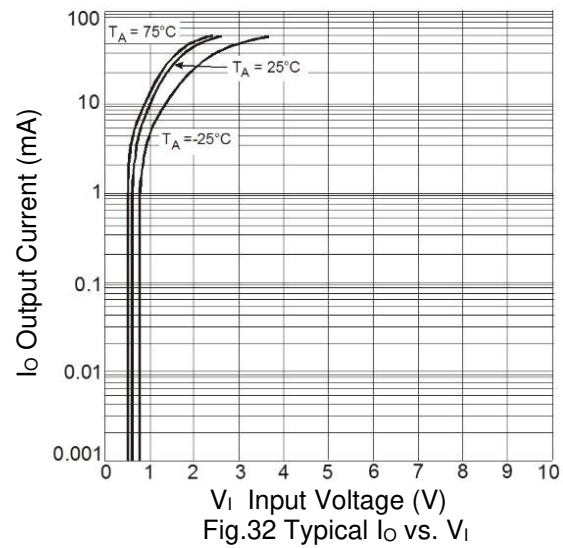
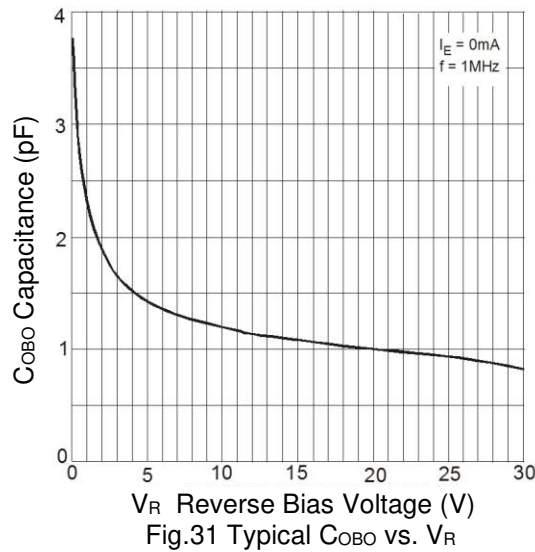
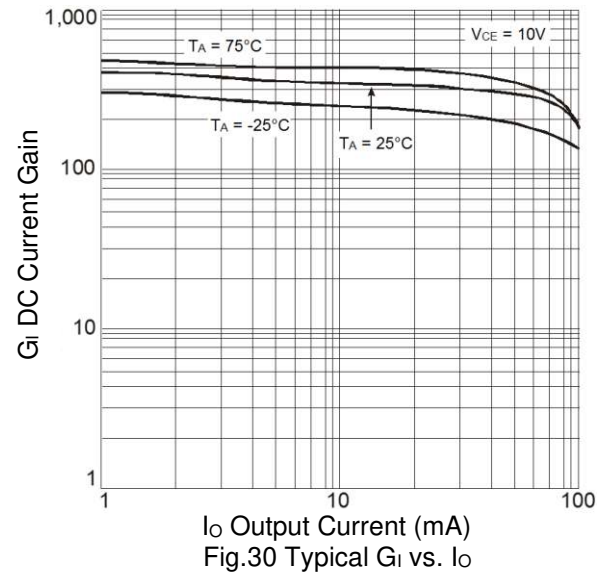
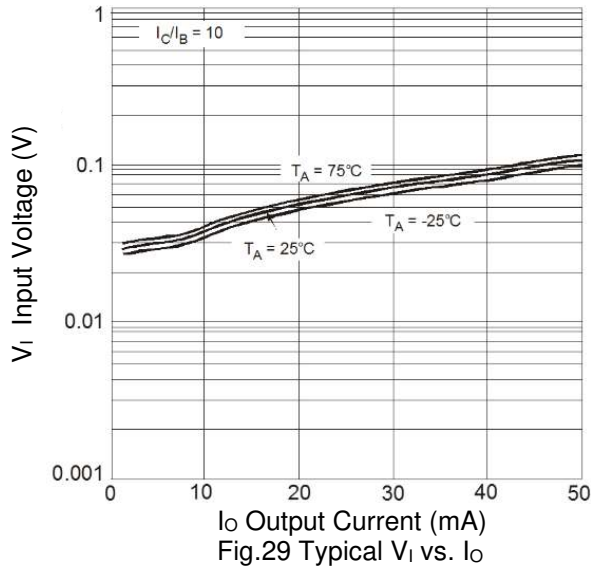


Fig.28 Typical V_I vs. I_O

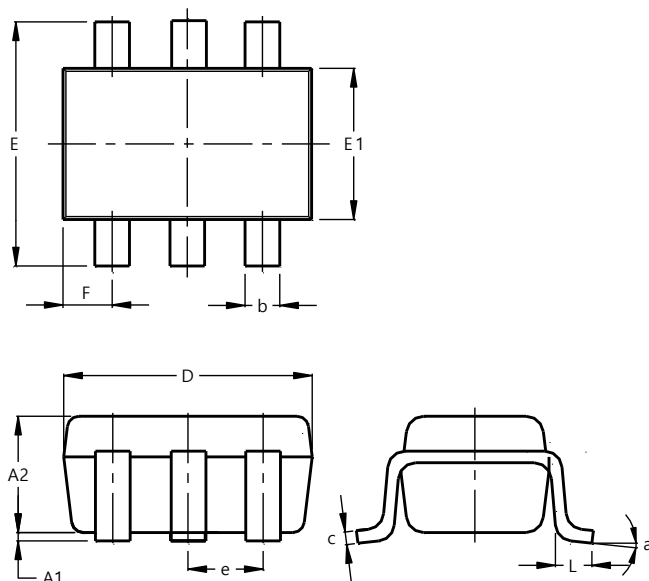
Typical Curves – DCX114TU NPN Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)



Package Outline Dimensions

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

SOT363

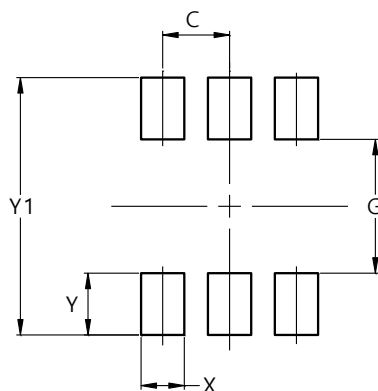


SOT363			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

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

SOT363



Dimensions	Value (in mm)
C	0.650
G	1.300
X	0.420
Y	0.600
Y1	2.500

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