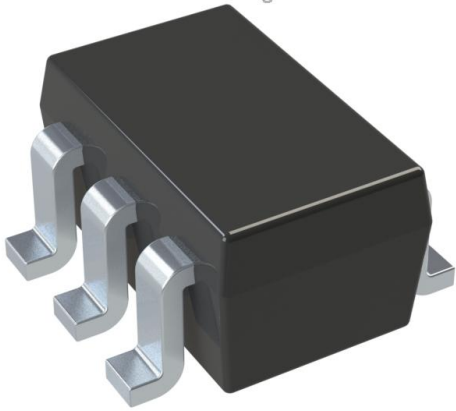


DCX115EU-7-F Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	DCX115EU-7-F-DG
Manufacturer	Diodes Incorporated
Manufacturer Product Number	DCX115EU-7-F
Description	TRANS PREBIAS NPN/PNP SOT363
Detailed Description	Pre-Biased Bipolar Transistor (BJT) 1 NPN, 1 PNP - Pre-Biased (Dual) 50V 100mA 250MHz 200mW Surface Mount SOT-363



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

DCX115EU-7-F

Series:

-

Transistor Type:

1 NPN, 1 PNP - Pre-Biased (Dual)

Voltage - Collector Emitter Breakdown (Max):

50V

Resistor - Emitter Base (R2):

100kOhms

Vce Saturation (Max) @ Ib, Ic:

300mV @ 500µA, 10mA

Frequency - Transition:

250MHz

Grade:

Automotive

Mounting Type:

Surface Mount

Supplier Device Package:

SOT-363

Manufacturer:

Diodes Incorporated

Product Status:

Active

Current - Collector (Ic) (Max):

100mA

Resistor - Base (R1):

100kOhms

DC Current Gain (hFE) (Min) @ Ic, Vce:

82 @ 5mA, 5V

Current - Collector Cutoff (Max):

500nA

Power - Max:

200mW

Qualification:

AEC-Q101

Package / Case:

6-TSSOP, SC-88, SOT-363

Base Product Number:

DCX115

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.21.0075

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

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/>

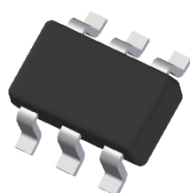
Part Number	R1(NOM)	R2(NOM)
DCX124EU	22k Ω	22k Ω
DCX144EU	47k Ω	47k Ω
DCX114YU	10k Ω	47k Ω
DCX123JU	2.2k Ω	47k Ω
DCX114EU	10k Ω	10k Ω
DCX143EU	4.7k Ω	4.7k Ω
DCX143ZU	4.7k Ω	47k Ω
DCX115EU	100k Ω	100k Ω

Mechanical Data

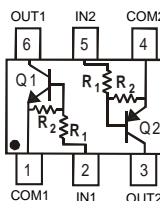
- Package: SOT363
- Package Material: Molded Plastic, "Green" Molding Compound; UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish – Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 Ⓒ3
- Weight: 0.006 grams (Approximate)

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

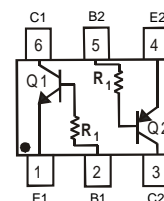
SOT363



Top View



R1, R2



R1 Only

Device Schematic

Ordering Information (Notes 4, 5)

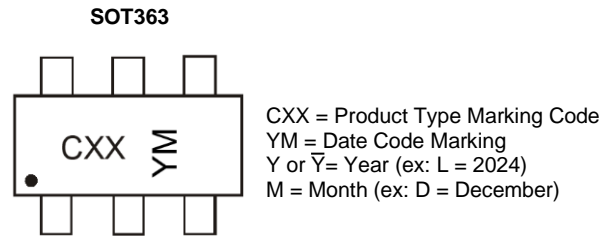
Part Number	Status	Package	Marking	Reel Size (inches)	Tape Width (mm)	Packing	
						Qty.	Carrier
DCX124EU-7-F	Active	SOT363	C17	7	8	3,000	Reel
DCX124EU-13-F	Active	SOT363	C17	13	8	10,000	Reel
DCX124EUQ-7-F	NRND (Use ACX124EUQ)	SOT363	C17	7	8	3,000	Reel
DCX124EUQ-13-F	NRND (Use ACX124EUQ)	SOT363	C17	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



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



DCX (XXXX) U

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	$^\circ\text{C}/\text{W}$
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.

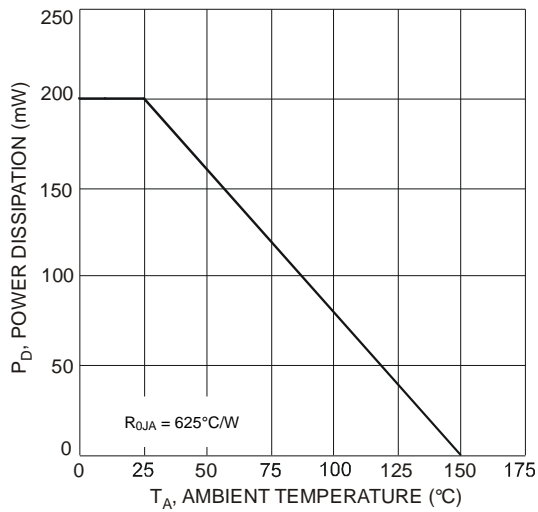
Thermal Characteristics (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Fig. 1 Power Derating Curve



DCX (XXXX) U

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

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition	
R1 Only (DCX143TU & DCX114TU)							
Collector-Base Breakdown Voltage	BV_{CBO}	50	—	—	V	$I_C = 50\mu\text{A}$	
Collector-Emitter Breakdown Voltage	BV_{CEO}	50	—	—	V	$I_C = 1\text{mA}$	
Emitter-Base Breakdown Voltage	BV_{EBO}	5	—	—	V	$I_E = 50\mu\text{A}$	
Collector Cutoff Current	I_{CBO}	—	—	0.5	μA	$V_{CB} = 50\text{V}$	
Emitter Cutoff Current	I_{EBO}	—	—	0.5	μA	$V_{EB} = 4\text{V}$	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	—	—	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	$V_{CE} = 10\text{V}$, $I_E = 5\text{mA}$, $f = 100\text{MHz}$	
R1/R2 Only							
Input Voltage	DCX124EU	$V_{I(off)}$	0.5	1.1	—	V	$V_{CC} = 5\text{V}$, $I_O = 100\mu\text{A}$
	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	$V_O = 0.3\text{V}$, $I_O = 5\text{mA}$
	DCX144EU		—	1.9	3.0		$V_O = 0.3\text{V}$, $I_O = 2\text{mA}$
	DCX114YU		—	—	1.4		$V_O = 0.3\text{V}$, $I_O = 1\text{mA}$
	DCX123JU		—	—	1.1		$V_O = 0.3\text{V}$, $I_O = 5\text{mA}$
	DCX114EU		—	1.9	3.0		$V_O = 0.3\text{V}$, $I_O = 10\text{mA}$
	DCX143EU		—	1.99	3.0		$V_O = 0.3\text{V}$, $I_O = 20\text{mA}$
DCX143ZU	—		—	1.3	$V_O = 0.3\text{V}$, $I_O = 5\text{mA}$		
DCX115EU	—	—	3	$V_O = 0.3\text{V}$, $I_O = 1\text{mA}$			
Output Voltage	DCX124EU	$V_{O(on)}$	—	0.1	0.3	V	$I_O/I_I = 10\text{mA} / 0.5\text{mA}$
	DCX144EU		—	0.1	0.3		$I_O/I_I = 10\text{mA} / 0.5\text{mA}$
	DCX114YU		—	0.1	0.3		$I_O/I_I = 5\text{mA} / 0.25\text{mA}$
	DCX123JU		—	0.1	0.3		$I_O/I_I = 5\text{mA} / 0.25\text{mA}$
	DCX114EU		—	0.1	0.3		$I_O/I_I = 10\text{mA} / 0.5\text{mA}$
	DCX143EU		—	0.1	0.3		$I_O/I_I = 10\text{mA} / 0.5\text{mA}$
	DCX143ZU		—	0.1	0.3		$I_O/I_I = 5\text{mA} / 0.25\text{mA}$
	DCX115EU		—	0.1	0.3		$I_O/I_I = 10\text{mA} / 0.5\text{mA}$
Input Current	DCX124EU	I_I	—	—	0.36	mA	$V_I = 5\text{V}$
	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	$V_{CC} = 50\text{V}$, $V_I = 0\text{V}$	
DC Current Gain	DCX124EU	G_I	56	—	—	—	$V_O = 5\text{V}$, $I_O = 5\text{mA}$
	DCX124EUQ		60				$V_O = 5\text{V}$, $I_O = 5\text{mA}$
	DCX144EU		68				$V_O = 5\text{V}$, $I_O = 5\text{mA}$
	DCX114YU		68				$V_O = 5\text{V}$, $I_O = 10\text{mA}$
	DCX114YUQ		80				$V_O = 5\text{V}$, $I_O = 10\text{mA}$
	DCX123JU		80				$V_O = 5\text{V}$, $I_O = 10\text{mA}$
	DCX114EU		30				$V_O = 5\text{V}$, $I_O = 5\text{mA}$
	DCX143EU		50				$V_O = 5\text{V}$, $I_O = 10\text{mA}$
	DCX143ZU		80				$V_O = 5\text{V}$, $I_O = 10\text{mA}$
DCX115EU	82	$V_O = 5\text{V}$, $I_O = 5\text{mA}$					
Input Resistor (R_1) Tolerance	ΔR_1	-30	—	+30	%	—	
Resistance Ratio Tolerance	$\Delta R_2/R_1$	-20	—	+20	%	—	
Gain-Bandwidth Product	f_T	—	250	—	MHz	$V_{CE} = 10\text{V}$, $I_E = 5\text{mA}$, $f = 100\text{MHz}$	



DCX (XXXX) U

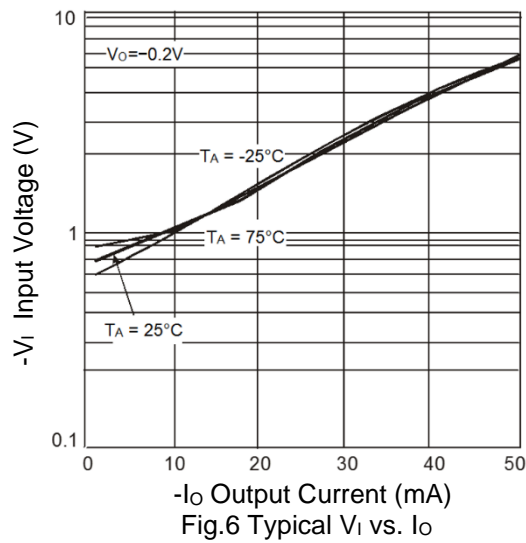
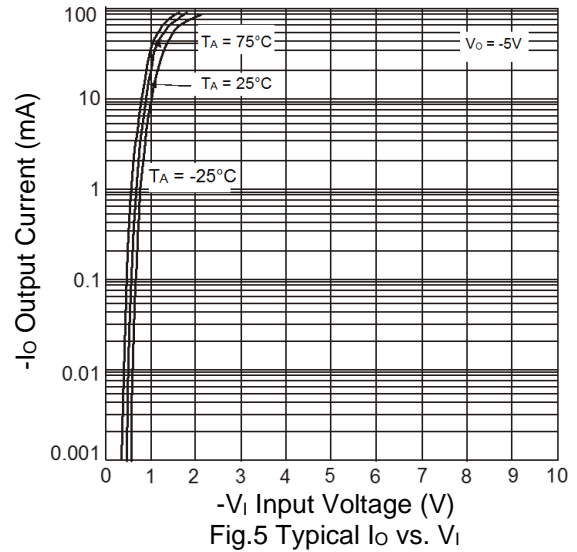
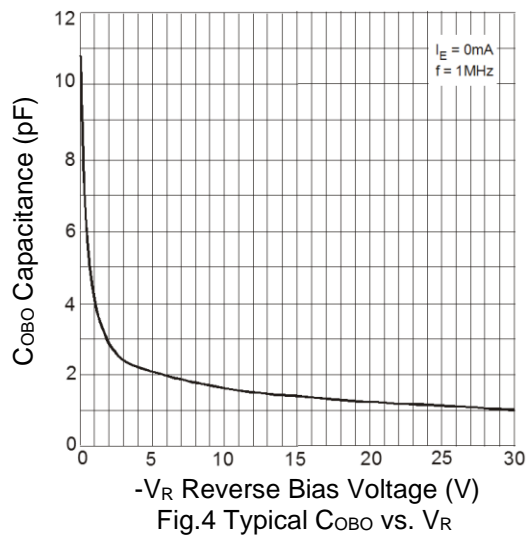
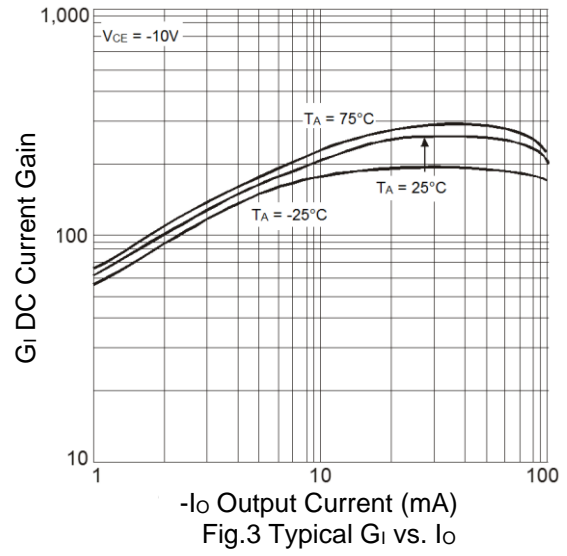
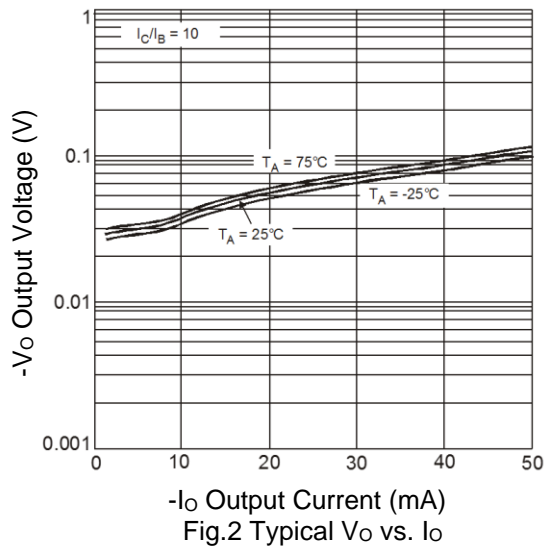
Electrical Characteristics PNP Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Condition	
R1 Only (DCX143TU & DCX114TU)								
Collector-Base Breakdown Voltage		BV_{CBO}	-50	—	—	V	$I_C = -50\mu\text{A}$	
Collector-Emitter Breakdown Voltage		BV_{CEO}	-50	—	—	V	$I_C = -1\text{mA}$	
Emitter-Base Breakdown Voltage		BV_{EBO}	-5	—	—	V	$I_E = -50\mu\text{A}$	
Collector Cutoff Current		I_{CBO}	—	—	-0.5	μA	$V_{CB} = -50\text{V}$	
Emitter Cutoff Current		I_{EBO}	—	—	-0.5	μA	$V_{EB} = -4\text{V}$	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	—	—	-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	$V_{CE} = -10\text{V}$, $I_E = -5\text{mA}$, $f = 100\text{MHz}$	
R1/R2 Only								
Input Voltage	DCX124EU	$V_{I(off)}$	-0.5	-1.1	—	V	$V_{CC} = -5\text{V}$, $I_O = -100\mu\text{A}$	
	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	$V_O = -0.3\text{V}$, $I_O = -5\text{mA}$	
	DCX144EU		—	-1.9	-3.0		$V_O = -0.3\text{V}$, $I_O = -2\text{mA}$	
	DCX114YU		—	—	-1.4		$V_O = -0.3\text{V}$, $I_O = -1\text{mA}$	
	DCX123JU		—	—	-1.1		$V_O = -0.3\text{V}$, $I_O = -5\text{mA}$	
	DCX114EU		—	-1.9	-3.0		$V_O = -0.3\text{V}$, $I_O = -10\text{mA}$	
	DCX143EU		—	-2.5	-3.0		$V_O = -0.3\text{V}$, $I_O = -20\text{mA}$	
DCX143ZU	—		—	-1.3	$V_O = -0.3\text{V}$, $I_O = -5\text{mA}$			
DCX115EU	—	—	-3	$V_O = -0.3\text{V}$, $I_O = -1\text{mA}$				
Output Voltage	DCX124EU	$V_{O(on)}$	—	-0.1	-0.3	V	$I_O/I_I = -10\text{mA} / -0.5\text{mA}$	
	DCX144EU						$I_O/I_I = -10\text{mA} / -0.5\text{mA}$	
	DCX114YU						$I_O/I_I = -5\text{mA} / -0.25\text{mA}$	
	DCX123JU						$I_O/I_I = -5\text{mA} / -0.25\text{mA}$	
	DCX114EU						$I_O/I_I = -10\text{mA} / -0.5\text{mA}$	
	DCX143EU						$I_O/I_I = -10\text{mA} / -0.5\text{mA}$	
	DCX143ZU						$I_O/I_I = -5\text{mA} / -0.25\text{mA}$	
	DCX115EU						$I_O/I_I = -10\text{mA} / -0.5\text{mA}$	
Input Current	DCX124EU	I_I	—	—	-0.36	mA	$V_I = -5\text{V}$	
	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	$V_{CC} = -50\text{V}$, $V_I = 0\text{V}$	
DC Current Gain	DCX124EU	G_i	56	—	—	—	$V_O = -5\text{V}$, $I_O = -5\text{mA}$	
	DCX124EUQ						60	$V_O = -5\text{V}$, $I_O = -5\text{mA}$
	DCX144EU						68	$V_O = -5\text{V}$, $I_O = -5\text{mA}$
	DCX114YU						68	$V_O = -5\text{V}$, $I_O = -10\text{mA}$
	DCX114YUQ						80	$V_O = -5\text{V}$, $I_O = -10\text{mA}$
	DCX123JU						80	$V_O = -5\text{V}$, $I_O = -10\text{mA}$
	DCX114EU						30	$V_O = -5\text{V}$, $I_O = -5\text{mA}$
	DCX143EU						40	$V_O = -5\text{V}$, $I_O = -10\text{mA}$
	DCX143ZU						80	$V_O = -5\text{V}$, $I_O = -10\text{mA}$
DCX115EU	82	$V_O = -5\text{V}$, $I_O = -5\text{mA}$						
Input Resistor (R_1) Tolerance		ΔR_1	-30	—	+30	%	—	
Resistance Ratio Tolerance		$\Delta R_2/R_1$	-20	—	+20	%	—	
Gain-Bandwidth Product		f_T	—	250	—	MHz	$V_{CE} = -10\text{V}$, $I_E = -5\text{mA}$, $f = 100\text{MHz}$	



DCX (XXXX) U

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





DCX (XXXX) U

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

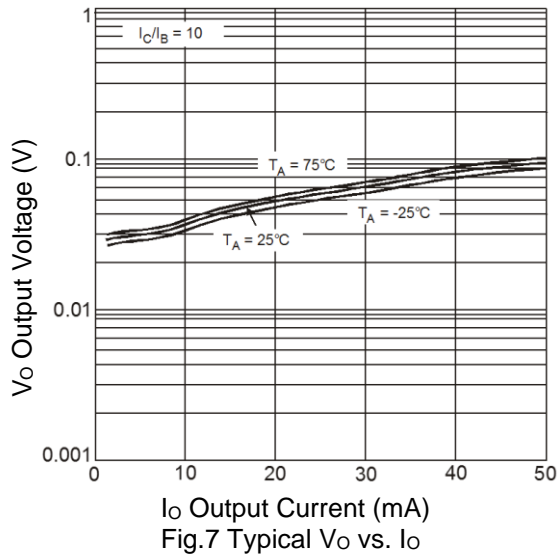


Fig.7 Typical V_O vs. I_O

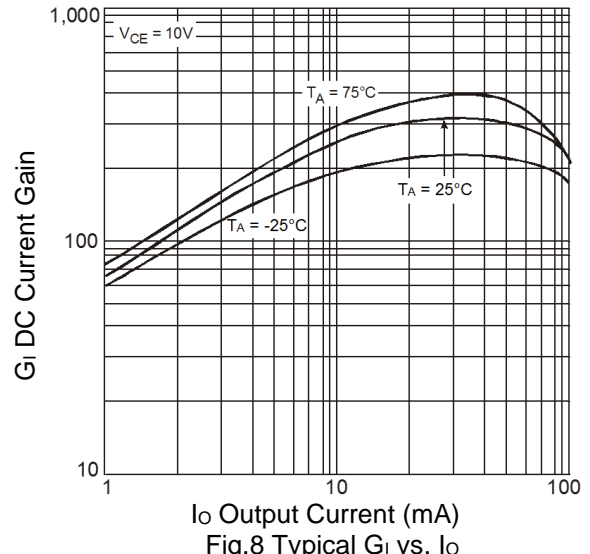


Fig.8 Typical G_i vs. I_O

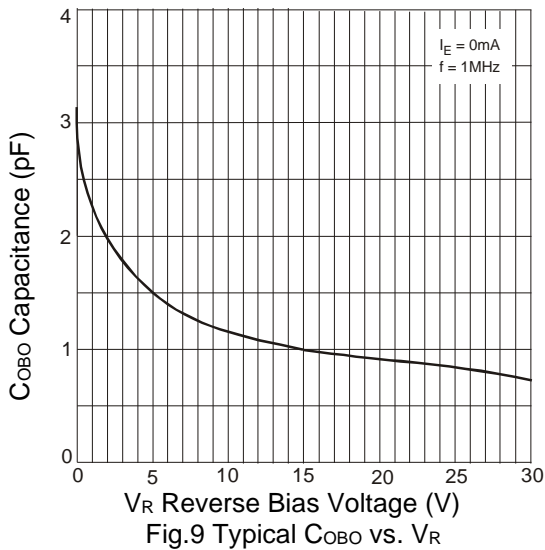


Fig.9 Typical C_{OBO} vs. V_R

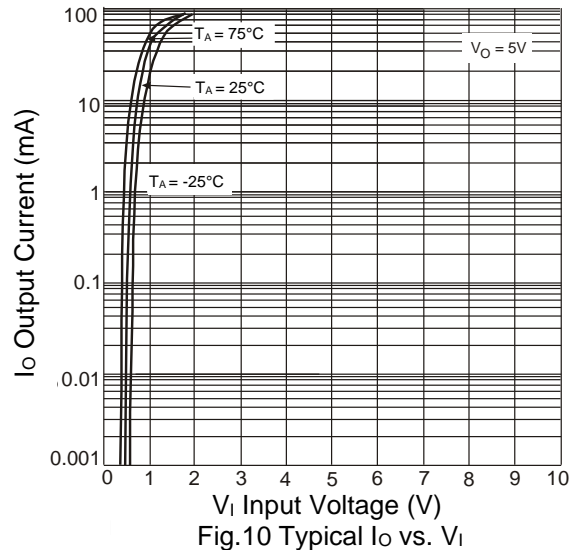


Fig.10 Typical I_O vs. V_i

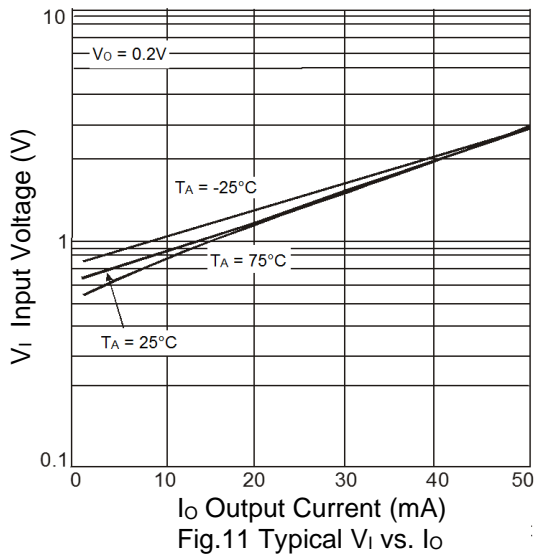


Fig.11 Typical V_i vs. I_O



DCX (XXXX) U

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

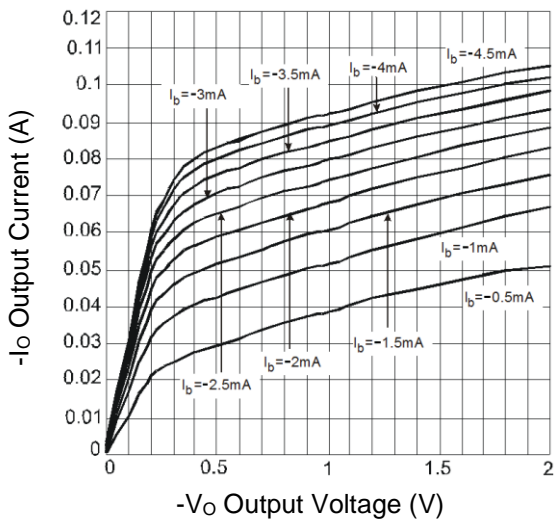


Fig. 12 Typical I_o vs. V_o

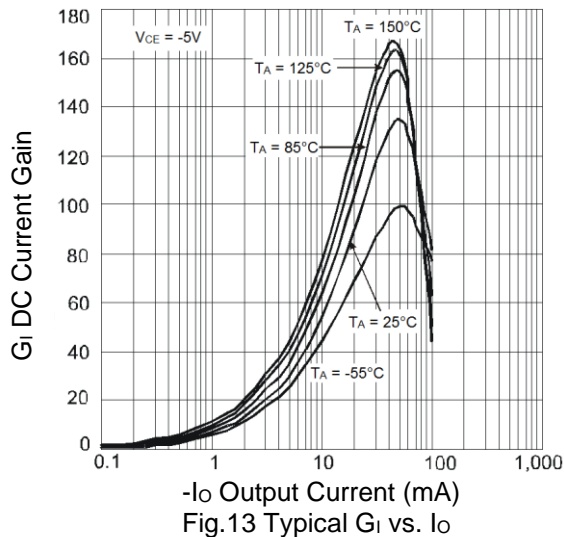


Fig. 13 Typical G_i vs. I_o

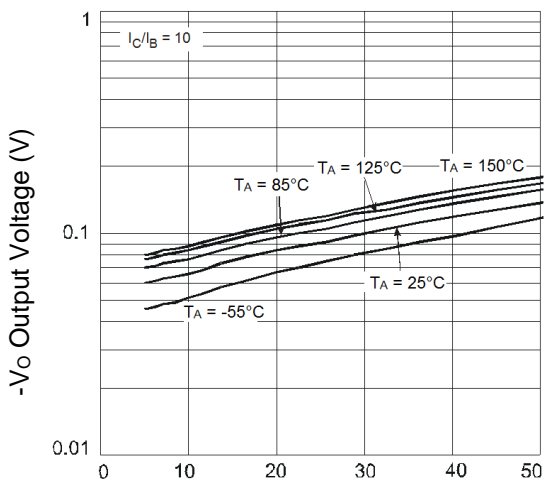


Fig. 14 Typical V_o vs. I_o

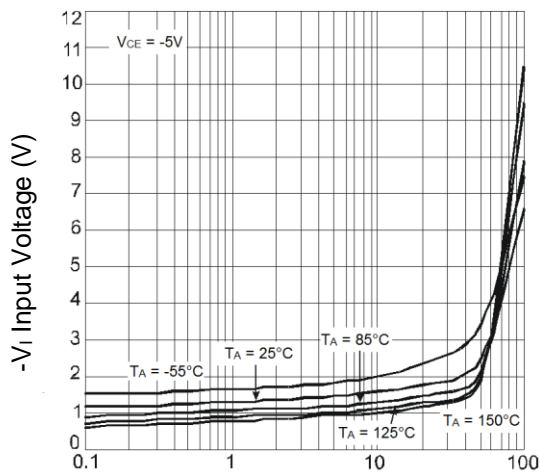


Fig. 15 Typical V_i vs. I_o

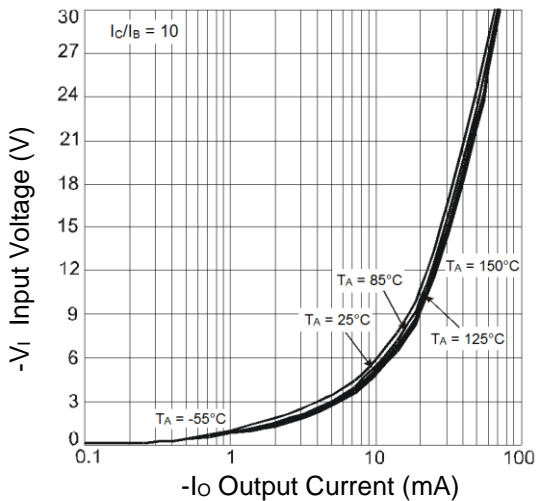


Fig. 16 Typical V_i vs. I_o

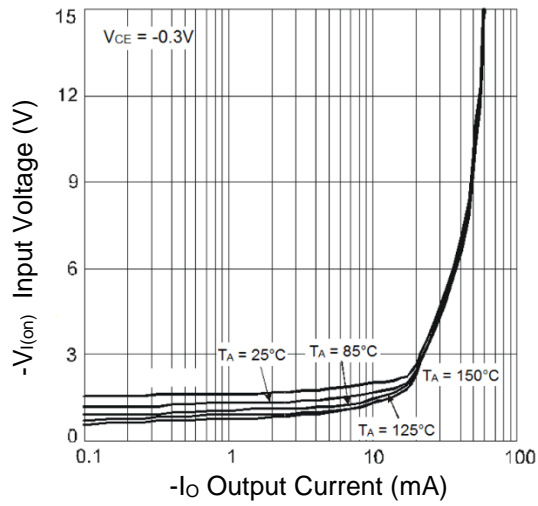
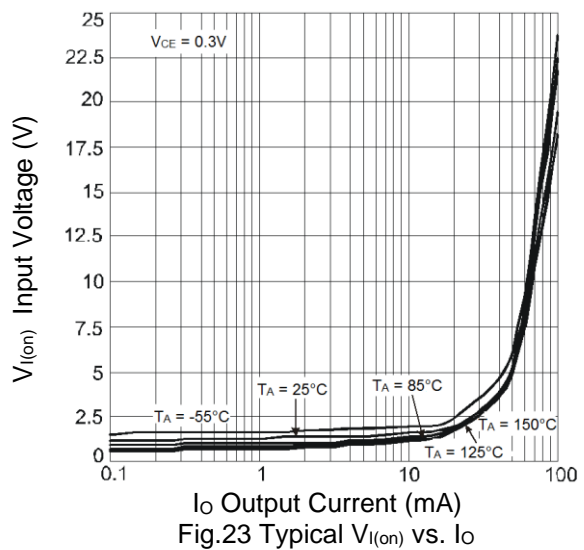
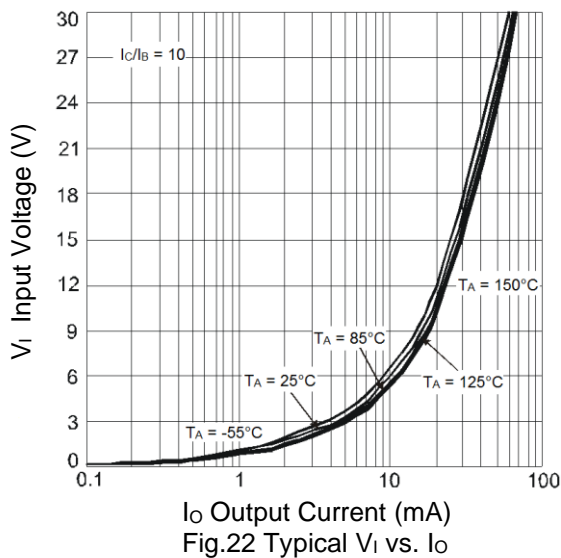
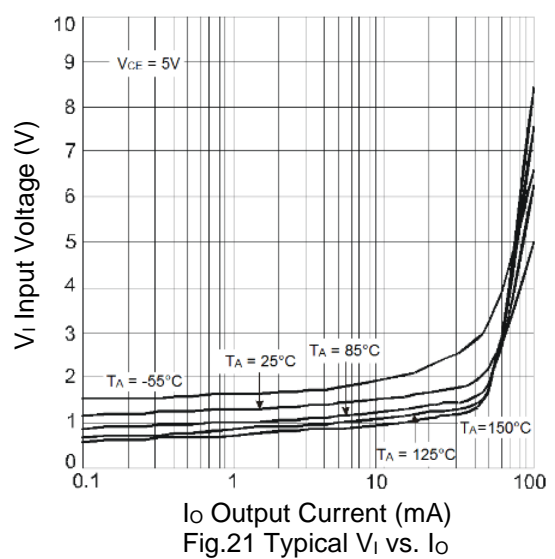
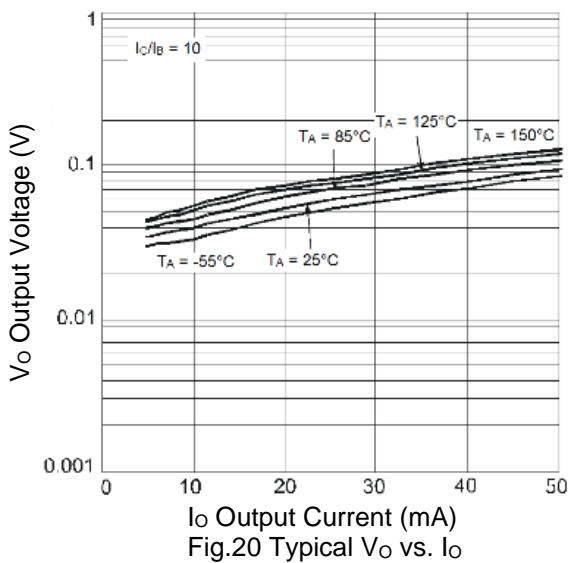
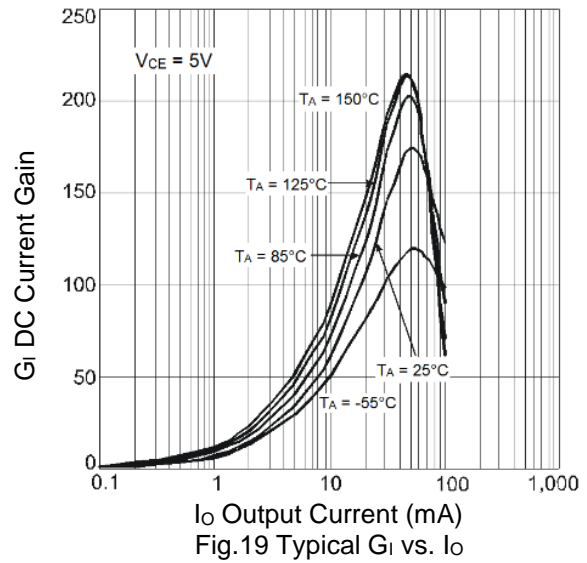
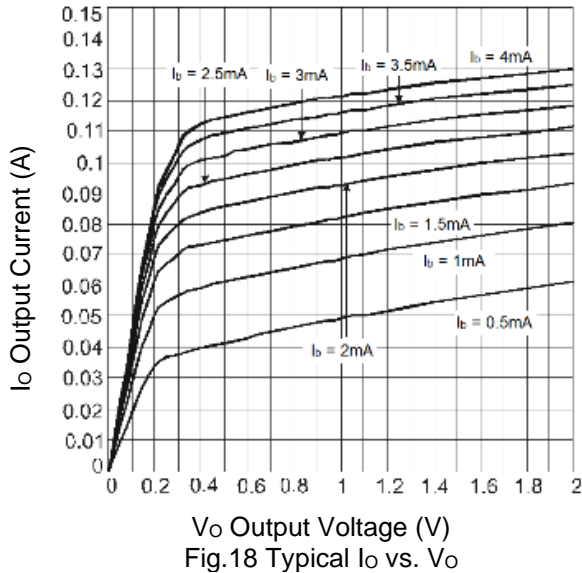


Fig. 17 Typical $V_{i(on)}$ vs. I_o



DCX (XXXX) U

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





DCX (XXXX) U

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

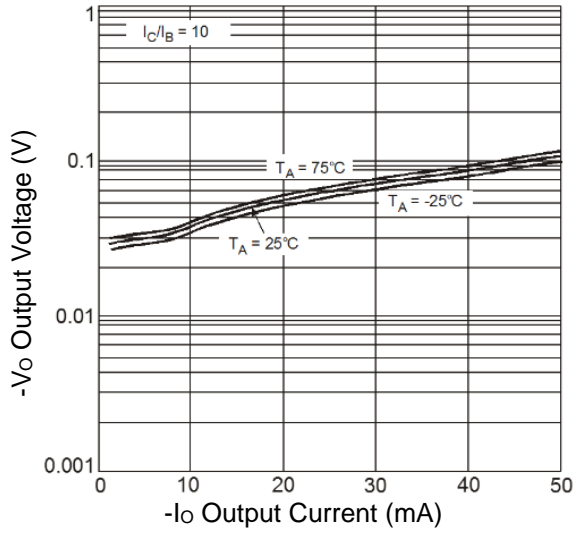


Fig.24 Typical V_O vs. I_o

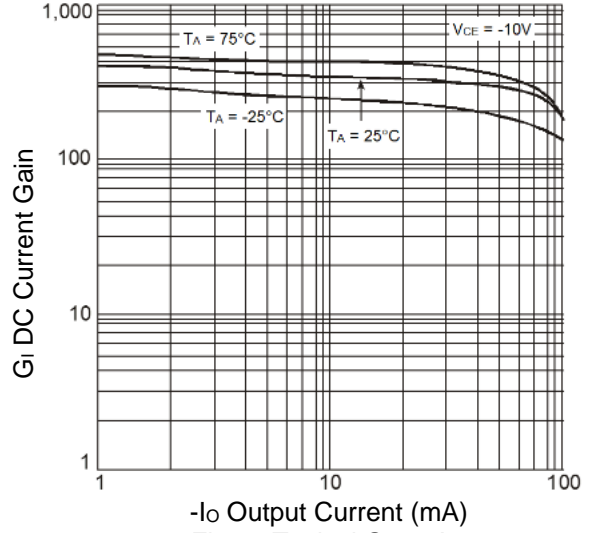


Fig.25 Typical G_1 vs. I_o

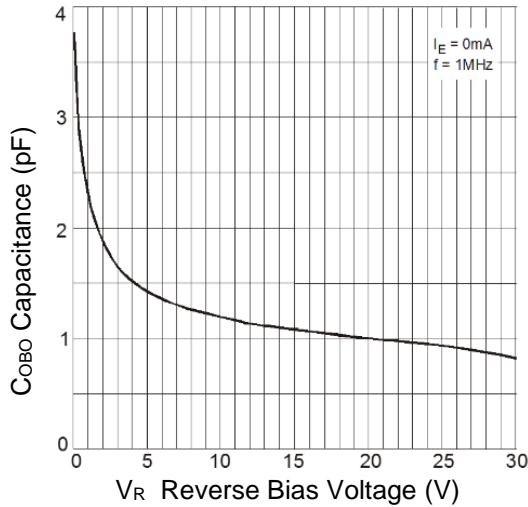


Fig.26 Typical C_{OB0} vs. V_R

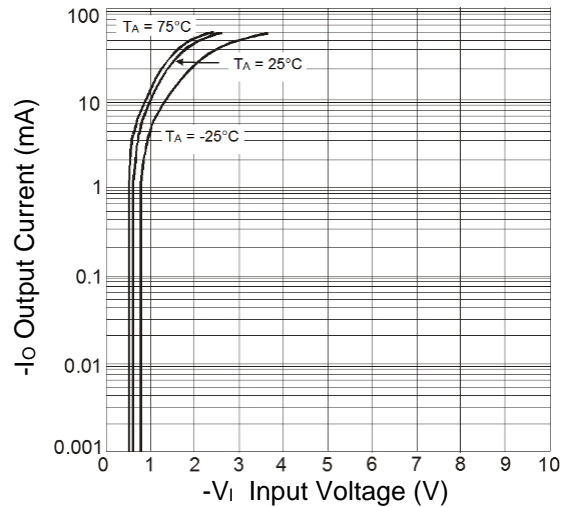


Fig.27 Typical I_o vs. V_I

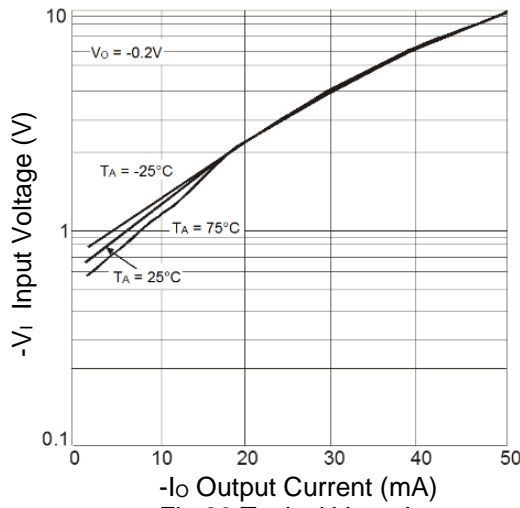
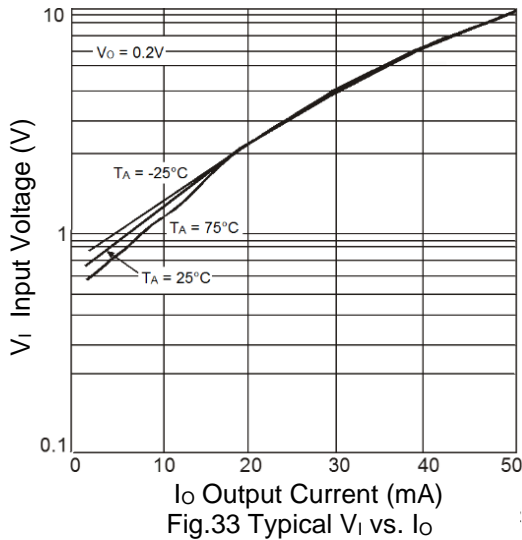
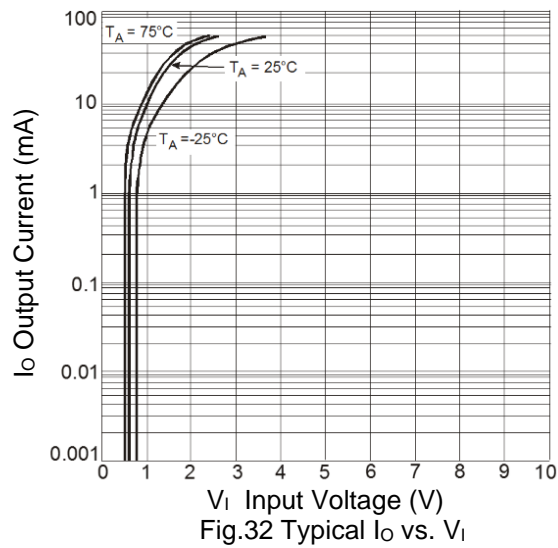
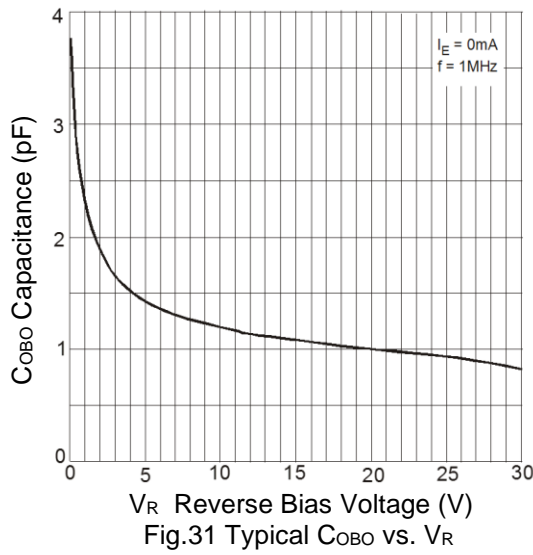
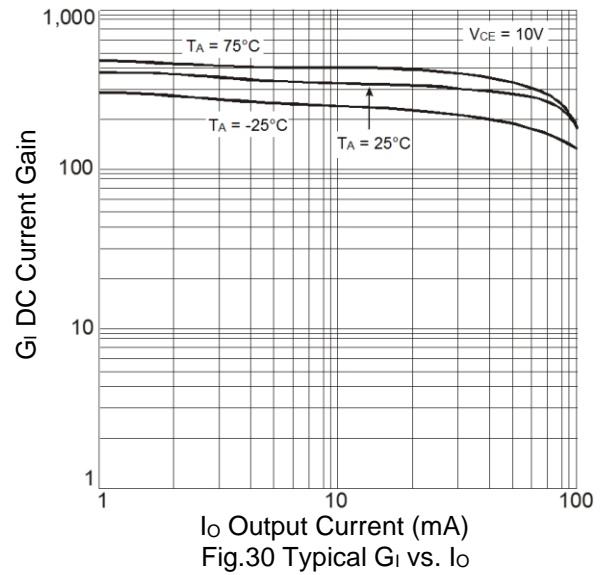
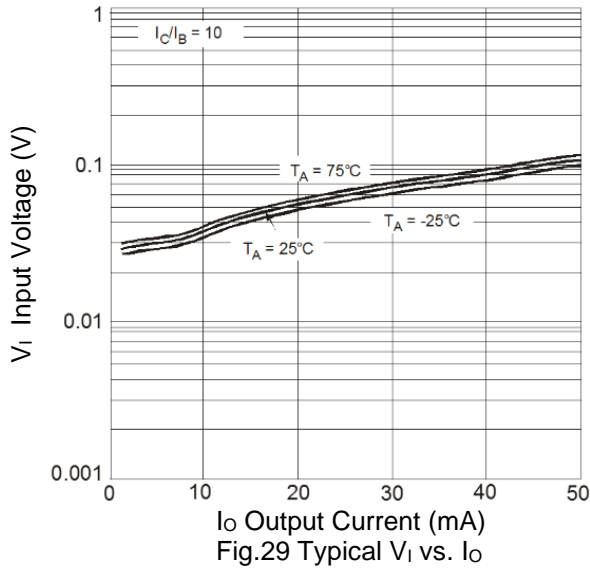


Fig.28 Typical V_I vs. I_o



DCX (XXXX) U

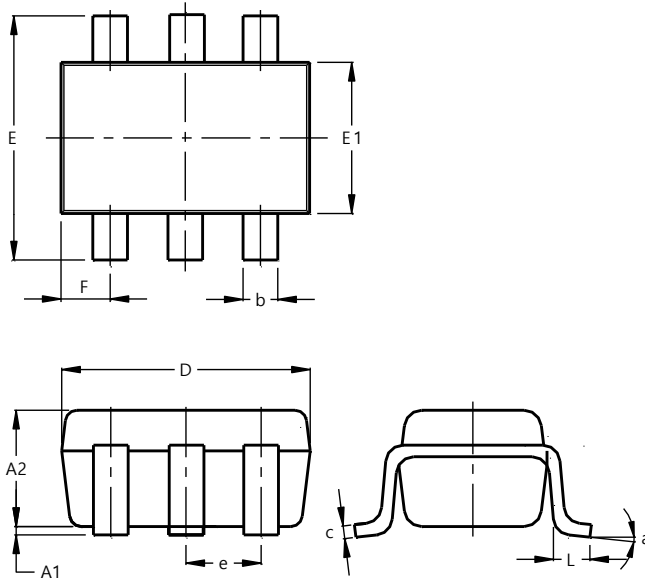
Typical Curves – DCX114TU NPN Section (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)



Package Outline Dimensions

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

SOT363

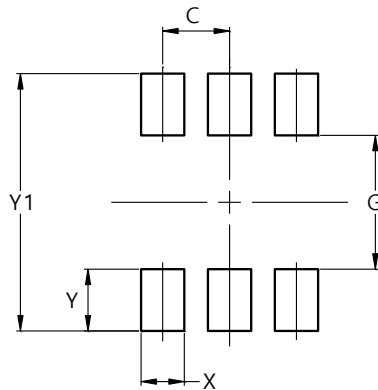


SOT363			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

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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