

CDBUT240L-HF

RoHS Device
Halogen Free



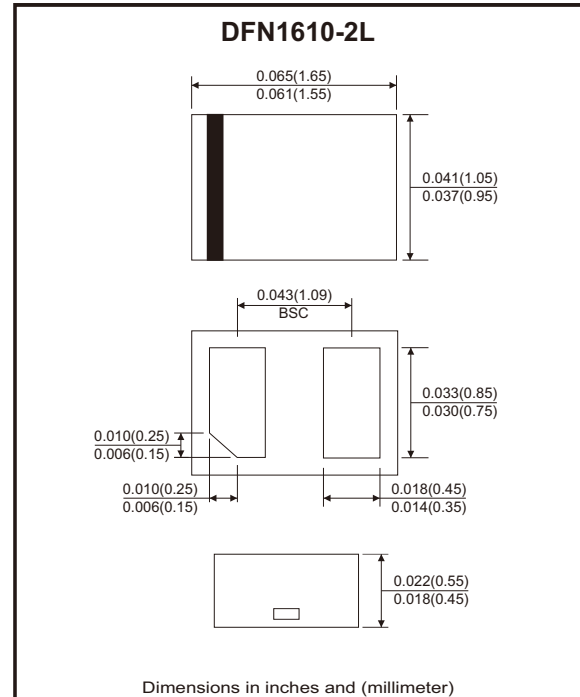
Features

- Low forward voltage drop.
- Surface device type mounting.
- Low voltage rectification.
- Low power consumption applications.

Mechanical data

- Case: DFN1610-2L package.
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.

Circuit Diagram



Maximum Rating (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum repetitive reverse voltage	V_{RRM}	40	V
Maximum DC blocking reverse voltage	V_R	40	V
Average forward current	I_O	2	A
Peak forward surge current , 8.3ms single half-sine-wave	I_{FSM}	20	A
Operating junction temperature range	T_J	-50 to +125	°C
Storage temperature range	T_{STG}	-50 to +150	°C

Note: These rating are limiting values above which the serviceability of the diode may be impaired.

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Breakdown voltage	$I_R = 0.1mA$	V_{BR}	40			V
Reverse leakage current	$V_R = 40V$	I_R			80	μA
Forward voltage	$I_F = 1A$	V_F		0.37	0.42	V
	$I_F = 2A$	V_F			0.50	V
Junction capacitance	$V_R = 0V, f = 1MHz$	C_T		340	400	pF

Typical Rating and Characteristic Curves (CDBUT240L-HF)

Fig.1 - Typical Forward Current Derating Curve

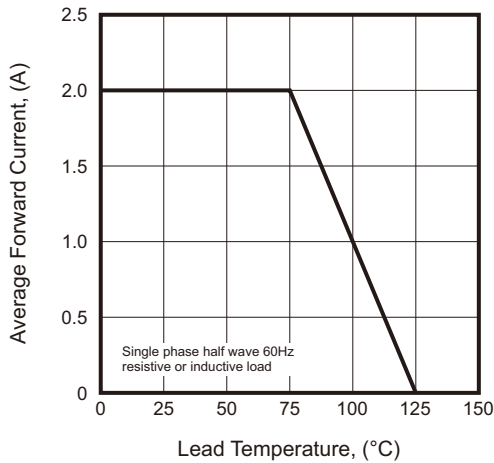


Fig.2 - Total Capacitance vs. Reverse Voltage

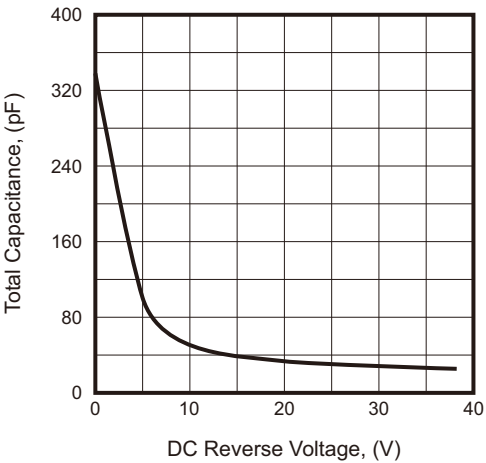


Fig.3 - Typical Instantaneous Forward Characteristics

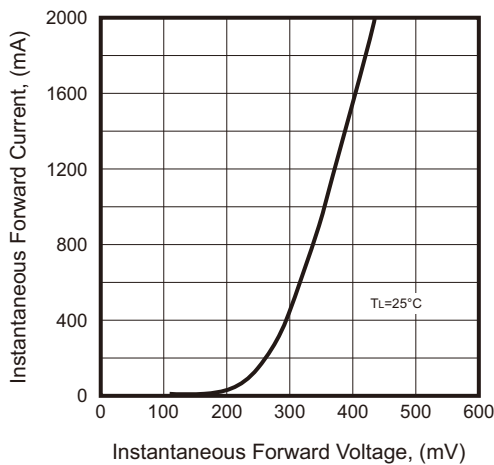


Fig.4 - Typical Reverse Characteristics

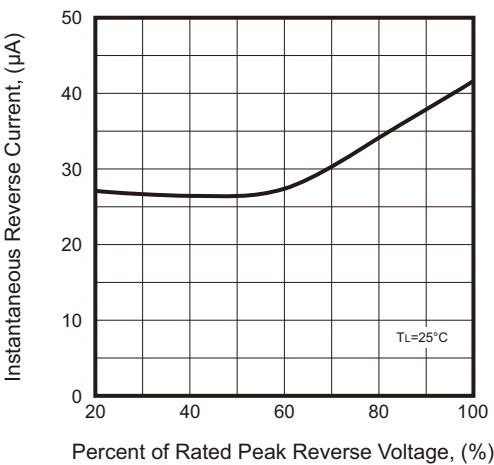
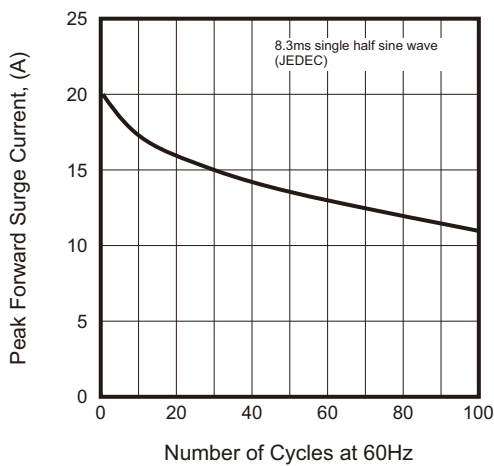
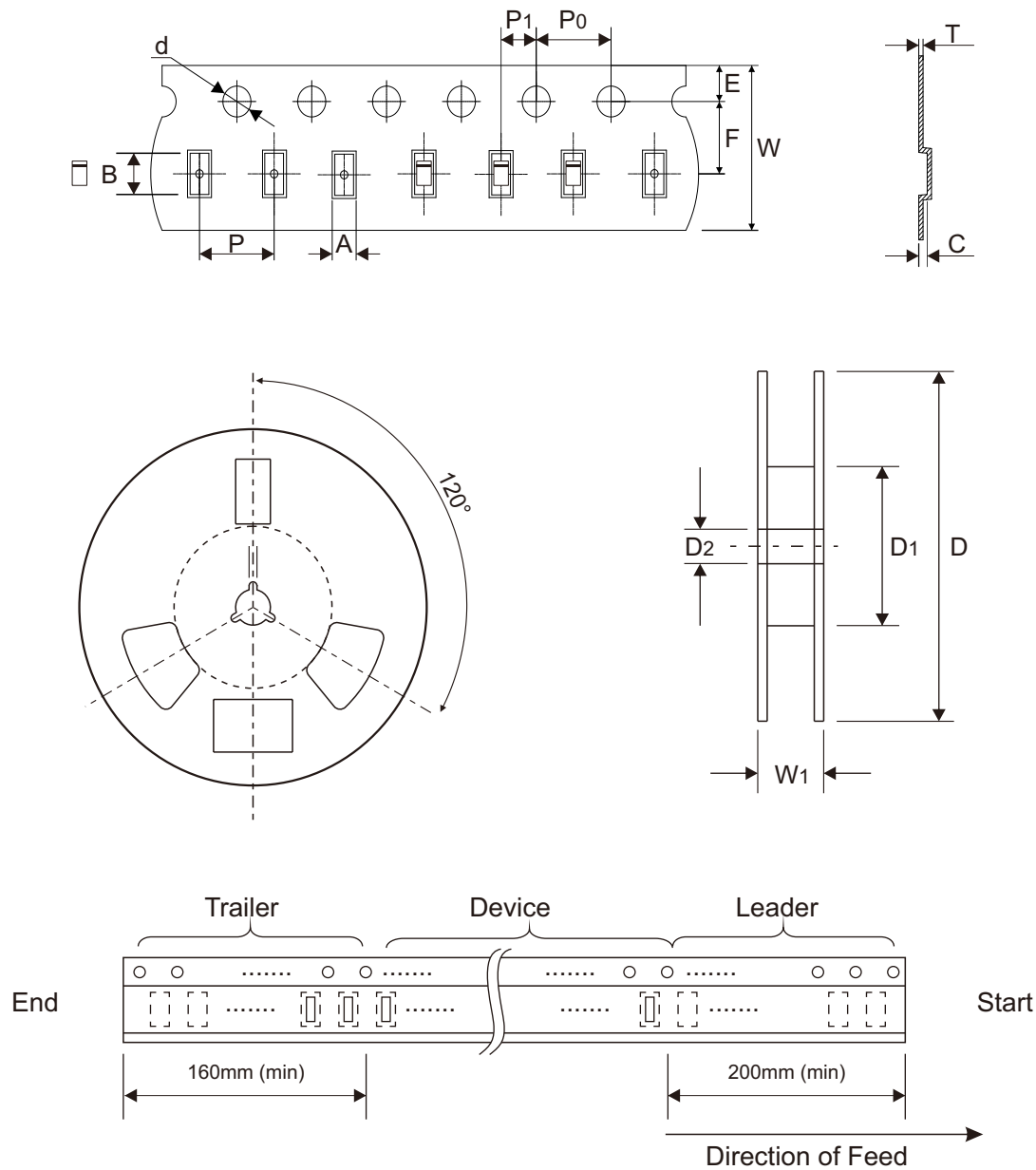


Fig.5 - Max. Non-Repetitive Forward Surge Current



Reel Taping Specification



DFN1610 -2L	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.15 ± 0.05	1.75 ± 0.05	0.63 ± 0.05	1.55 ± 0.10	177.20 ± 0.20	54.30 ± 0.20	14.30 ± 0.20
	(inch)	0.045 ± 0.002	0.069 ± 0.002	0.025 ± 0.002	0.061 ± 0.004	6.976 ± 0.008	2.138 ± 0.008	0.563 ± 0.008

DFN1610 -2L	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.20 ± 0.05	8.00 + 0.20 - 0.10	12.30 ± 0.20
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.002	0.315 + 0.008 - 0.004	0.484 ± 0.008

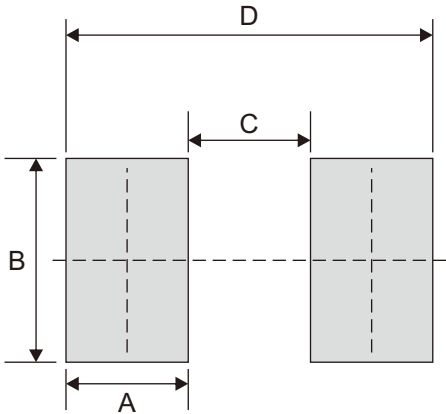
Marking Code

Part Number	Marking Code
CDBUT240L-HF	JU4



Suggested P.C.B. PAD Layout

SIZE	DFN1610-2L	
	(mm)	(inch)
A	0.60	0.024
B	1.00	0.039
C	0.60	0.024
D	1.80	0.071



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DFN1610-2L	3,000	7