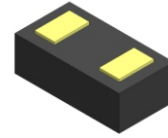


CDBWLZ140L-HF

RoHS Device
Halogen Free

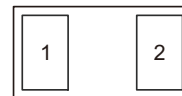


Case WLCSP 0201

Features

- Low forward voltage.
- Designed for mounting on small surface.
- Extremely thin package.
- Low stored charge.
- Majority carrier conduction.

Outline



Circuit Diagram



Mechanical data

- Case: WLCSP 0201 package, molded plastic.
- Polarity: Indicated by cathode band.
- Mounting position: Any.

Part number	Package	Reel	Reel size	Marking code
CDBWLZ140L-HF	WLCSP 0201	10,000	7 inch	IQ

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

Parameter	Conditions	Symbol	Value	Unit
Forward current		I _F	1	A
Reverse voltage		V _R	40	V
Peak forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	7	A

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 10mA	V _F			330	mV
	I _F = 500mA				600	
	I _F = 1A				800	
Reverse current	V _R = 10V	I _R			15	μA
	V _R = 30V				50	
	V _R = 40V				50	
Junction capacitance	V _R = 0V, f = 1MHz	C _J		82		pF

Typical Rating and Characteristic Curves (CDBWLZ140L-HF)

Fig.1 - Forward Characteristics

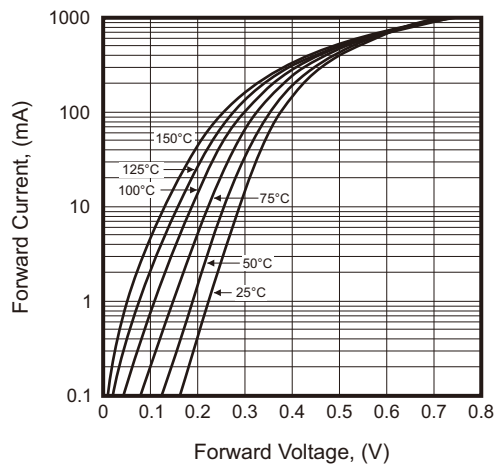


Fig.2 - Reverse Characteristics

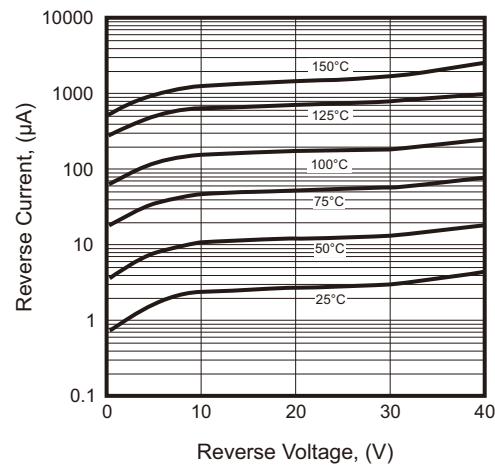
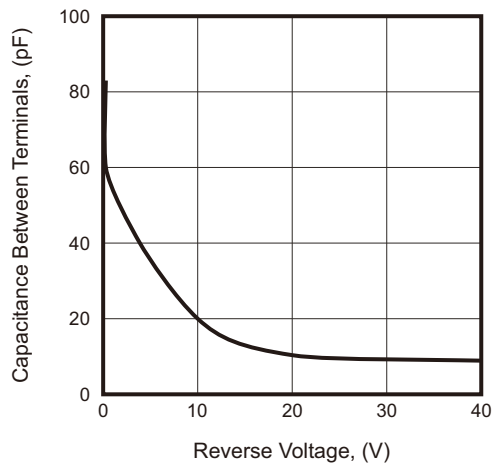
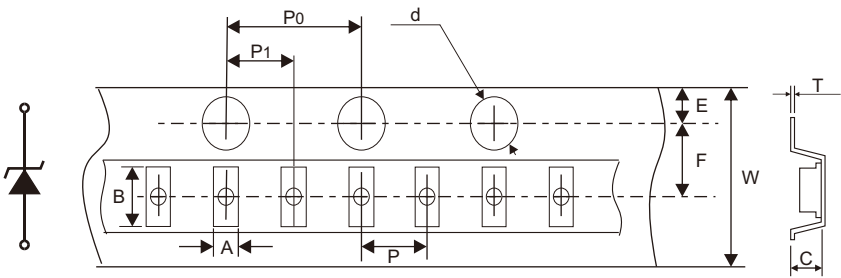


Fig.3 - Capacitance Between
Terminals Characteristics

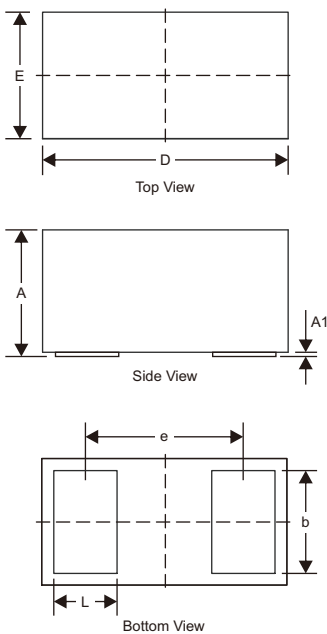


Taping Specification



SIZE	WLCSP 0201
	(mm)
A	0.44±0.03
B	0.74±0.03
C	0.40±0.03
P	2.00±0.05
P0	4.00±0.10
P1	2.00±0.05
d	1.50±0.10
E	1.75±0.10
F	3.50±0.05
W	8.00+0.30/-0.10
T	0.20±0.03

Package Dimensions

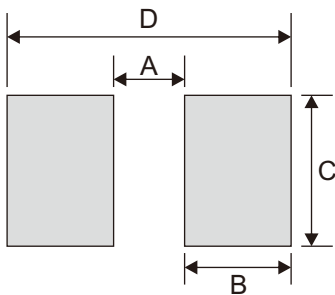


WL, 0.62x0.32, 0.40P

Case 0201

Symbol	Millimeters		
	Min	Nom	Max
A	0.28	0.30	0.32
A1	-	-	0.01
b	0.20	0.24	0.28
D	0.60	0.62	0.64
E	0.30	0.32	0.34
e	-	0.40	-
L	0.10	0.14	0.18

Suggested P.C.B. PAD Layout



Size	WLCSP 0201	
	(mm)	(inch)
A	0.16	0.006
B	0.24	0.009
C	0.34	0.013
D	0.64	0.025