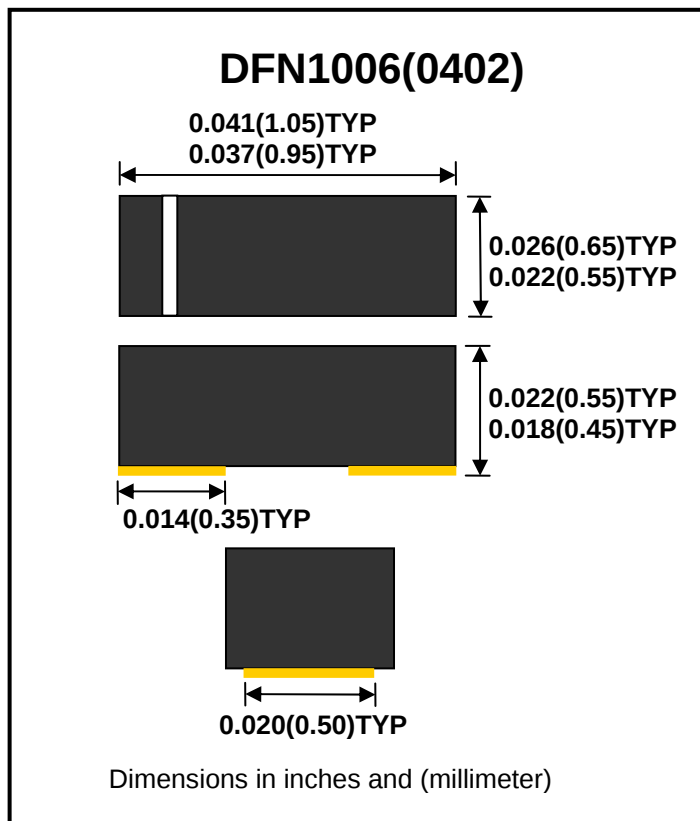


**CDB0140QRL****100mA 40V****Features**

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

MECHANICAL CHARACTERISTICS

- Case: DFN1006(0402) mold package
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Marking code: cathode band & B8
- Mounting position: Any.
- Weight: 0.001 gram(approx.)

**Maxim Rating And ELECTRICAL CHARACTERISTICS (at TA=25°C unless otherwise noted)**

Parameter	Condition	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			43	V
Reverse voltage		V_R			40	V
Average forward current		I_o			100	mA
Forward current surge peak	8.3ms single half sine-wave superimposed on rate load(JEDEC method)	I_{FSM}			1	A
Power Dissipation		P_D			125	mW
Storage/Operation temperature		T_{Sgt}	-40		+125	°C
Junction temperature		T_j			+125	°C
Forward voltage	$I_F=100mA$ $I_F=10mA$	V_F			0.55 0.34	V
Reverse current	$V_R=10V$	I_R			10	uA
Capacitance between terminals	$f = 1\text{ MHz}$, and 10 VDC reverse voltage	C_T		6		pF



Typical Characteristics

Fig. 1 - Forward characteristics

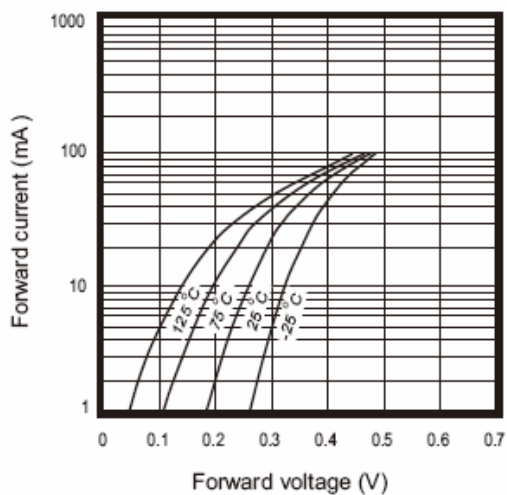


Fig. 2 - Reverse characteristics

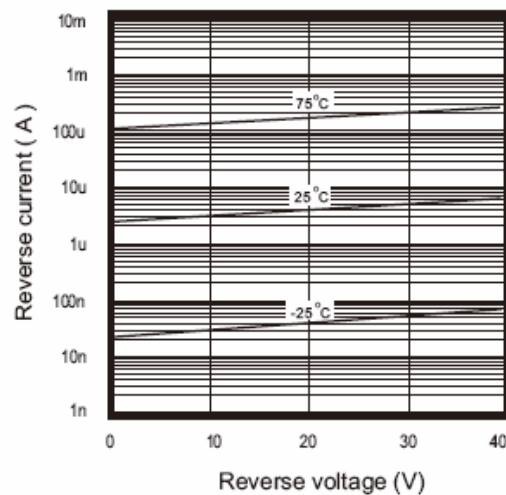


Fig. 3 - Capacitance between terminals characteristics

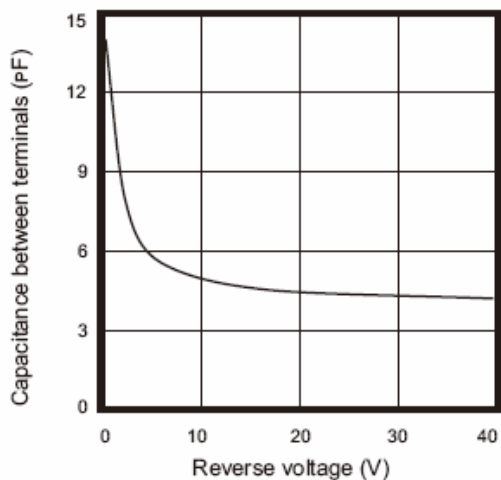
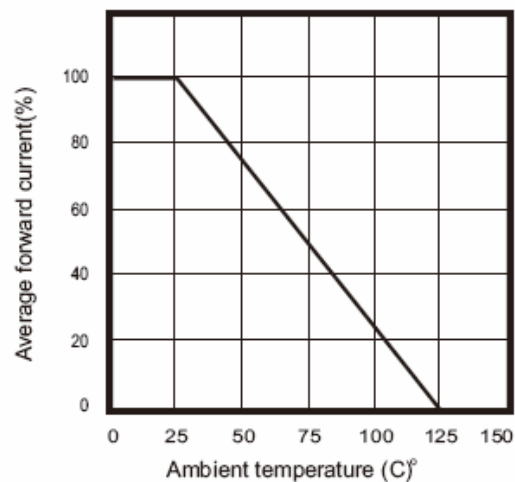
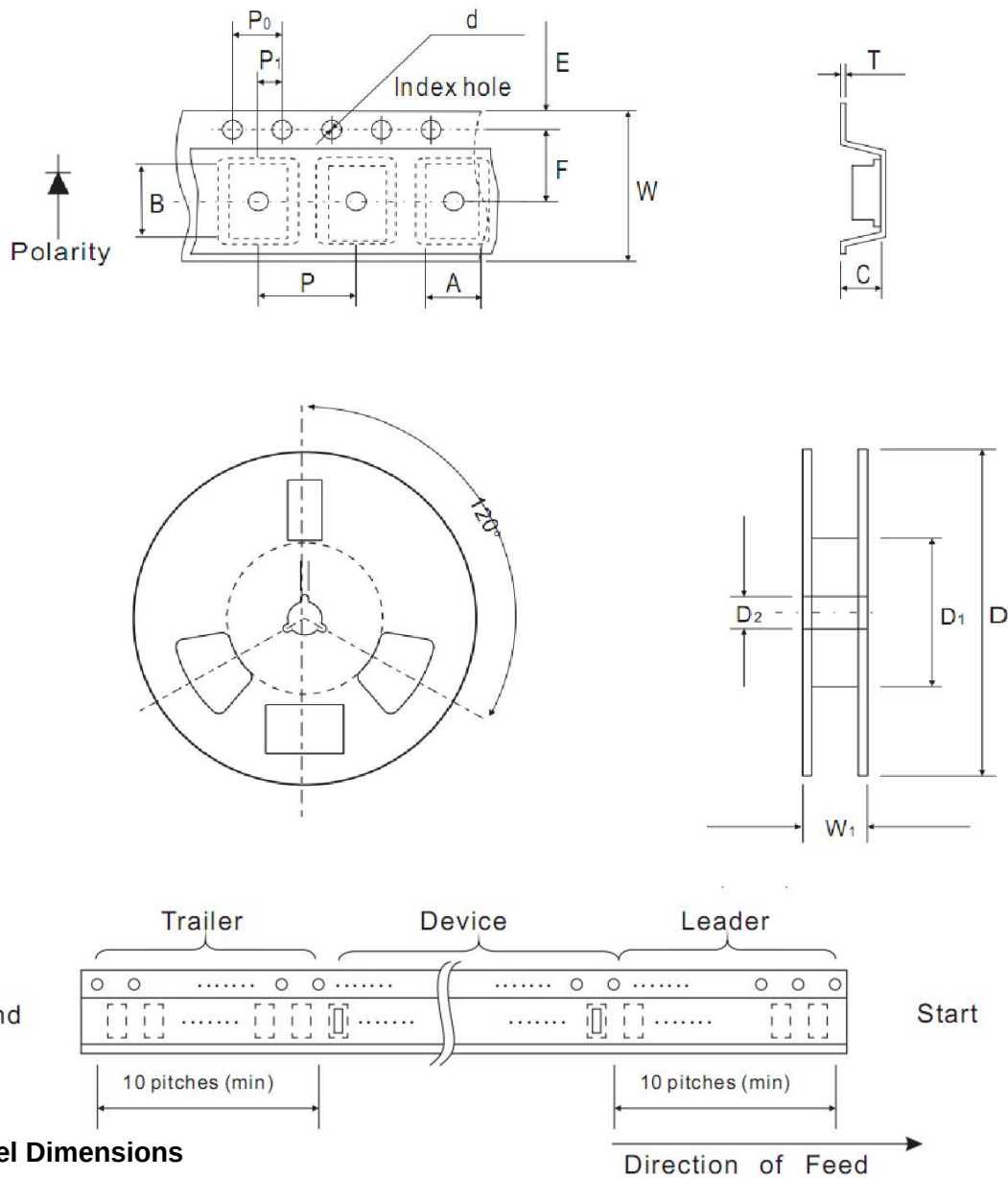


Fig.4 - Current derating curve





Packing Specification



Tape & Reel Dimensions

Package	Unit	A	B	C	d	D	D1	D2
DFN1006	mm	0.67±0.10	1.12±0.10	0.60±0.10	1.50±0.10	178±1	60MIN	13.0±0.20
	inch	0.026±0.004	0.044±0.004	0.024±0.004	0.060±0.004	7.008±0.04	2.362MIN	0.512±0.008

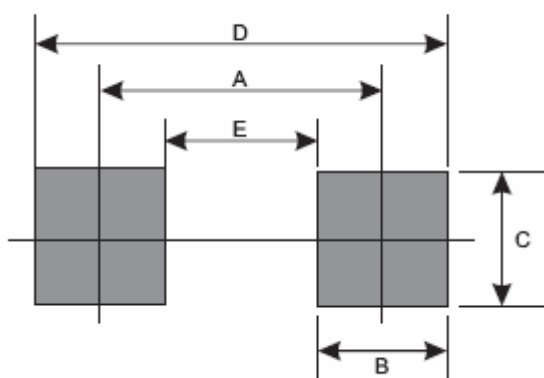
package	Unit	E	F	P	P0	P1	T	W	W1
DFN1006	mm	1.75±0.10	3.5±0.10	4.0±0.10	4.0±0.10	2.0±0.10	0.22±0.03	8.0±0.10	13.5MAX
	inch	0.069±0.004	0.138±0.004	0.157±0.004	0.157±0.004	0.079±0.004	0.009±0.002	0.315±0.004	0.531MAX



Standard Package

Package	Reel Size	Qty/Reel
DFN1006	7"	5000 pcs

RECOMMENDED SOLDERING FOOTPRINT

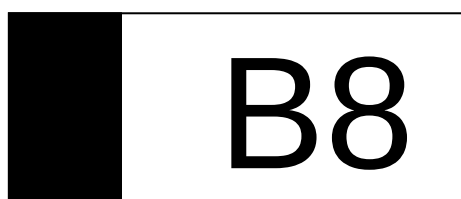


Reflow Soldering

Product Size	Dimension/ mm				
	A	B	C	D	E
DFN1006	0.750	0.500	0.700	1.250	0.250
	0.030"	0.020"	0.028"	0.049"	0.010"

Marking Code

Part Number	Marking Code
CDB0140QRL	B8



DISCLAIMERS

These products are not designed for use in applications where any failure or malfunction may result in personal injury, death or severe property or environmental damage such as medical, military, aircraft, space or life support equipments.