

RB521L-30-HF

RoHS Device

Halogen Free



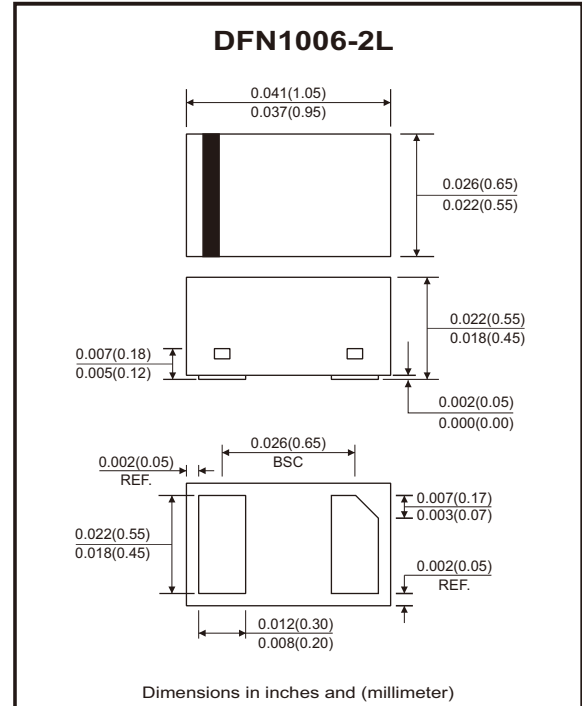
Features

- Low current rectification.
- Low forward voltage.

Mechanical data

- Case: DFN1006-2L 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
Repetitive peak reverse voltage	V_{RRM}	30	V
Reverse voltage	V_R	30	V
Average forward current	I_o	200	mA
Non-repetitive peak forward surge current @ 8.3ms single half sine-wave	I_{FSM}	500	mA
Power dissipation	P_D	150	mW
Operating junction temperature range	T_J	-40 to +125	°C
Storage temperature range	T_{STG}	-55 to +125	°C

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse leakage current	I_R	$V_R = 10V$			30	μA
Forward voltage	V_F	$I_F = 10mA$			0.35	V
		$I_F = 200mA$			0.5	V
Reverse voltage	V_R	$I_R = 100\mu A$	30			V

Typical Rating and Characteristic Curves (RB521L-30-HF)

Fig.1 - Forward Characteristics

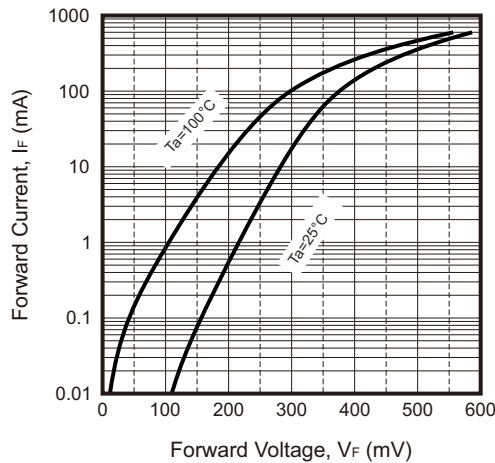


Fig.2 - Reverse Characteristics

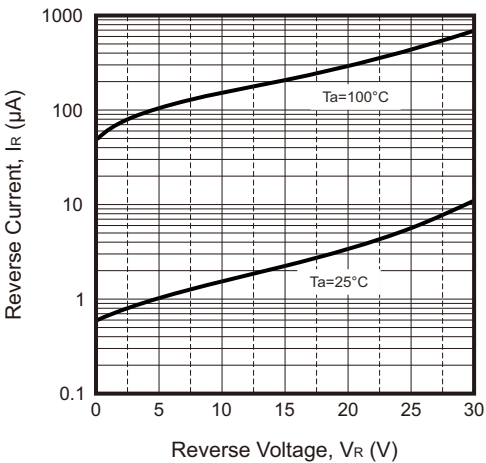


Fig.3 - Capacitance Characteristics

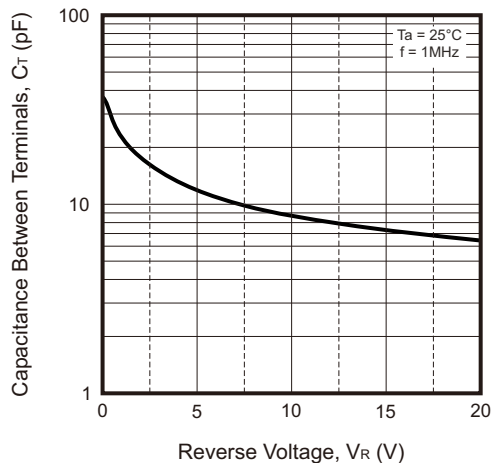
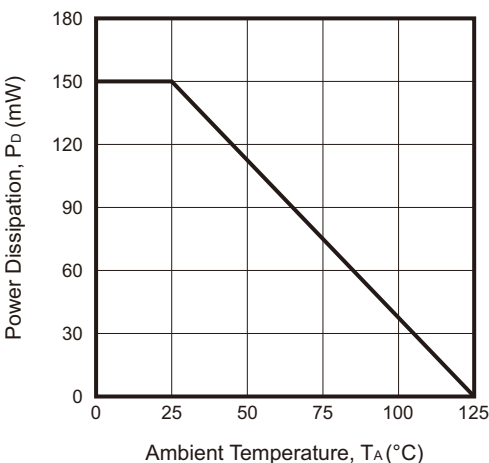
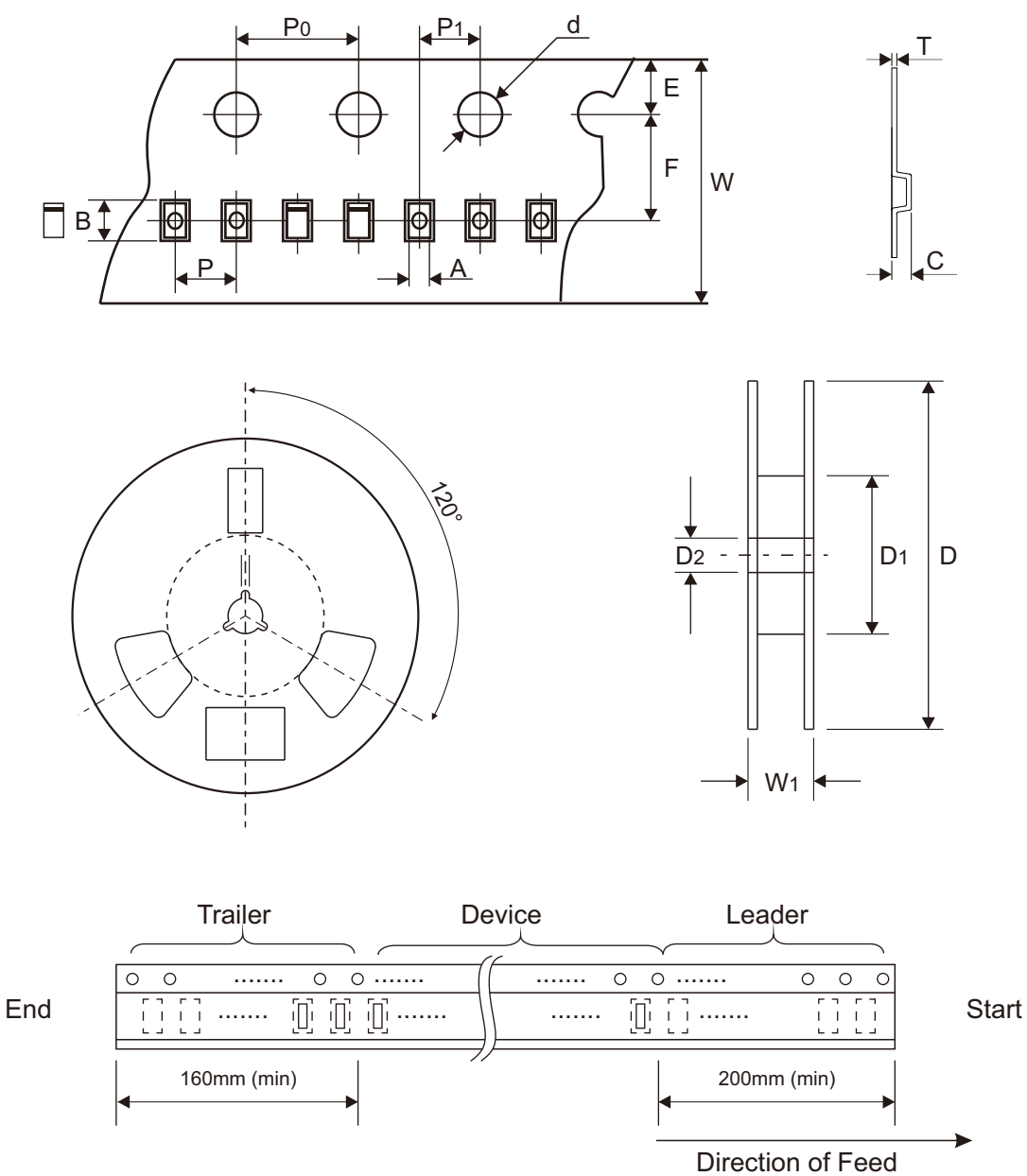


Fig.4 - Power Derating Curve



Reel Taping Specification



DFN1006 -2L	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	0.69 ± 0.03	1.12 ± 0.05	0.57 ± 0.02	1.55 ± 0.05	178.00 ± 2.00	50.00 ± 0.50	13.00 ± 0.25
	(inch)	0.027 ± 0.001	0.044 ± 0.002	0.022 ± 0.0001	0.061 ± 0.002	7.008 ± 0.079	1.969 ± 0.020	0.512 ± 0.010

DFN1006 -2L	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	2.00 ± 0.05	4.00 ± 0.05	2.00 ± 0.05	0.20 ± 0.02	8.00 ± 0.20	12.10 ± 1.50
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.079 ± 0.002	0.157 ± 0.002	0.079 ± 0.002	0.008 ± 0.001	0.315 ± 0.008	0.476 ± 0.059

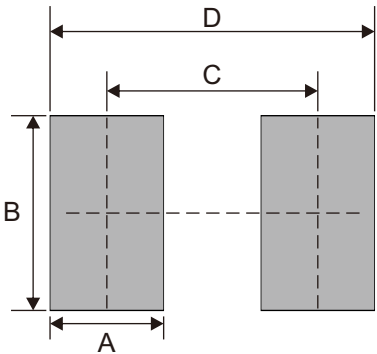
Marking Code

Part Number	Marking Code
RB521L-30-HF	F



Suggested P.C.B. PAD Layout

SIZE	DFN1006-2L	
	(mm)	(inch)
A	0.35	0.014
B	0.60	0.024
C	0.65	0.026
D	1.00	0.039



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DFN1006-2L	10,000	7