

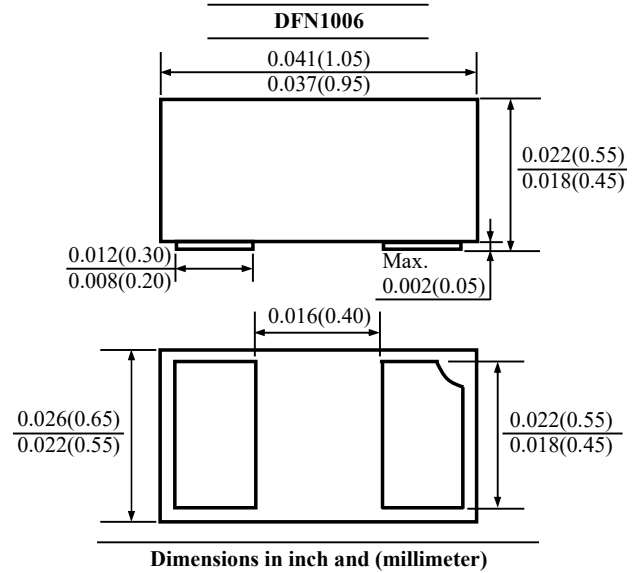
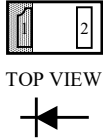


RB521CS-30H

SCHOTTKY DIODE

FEATURES

- Ultra small power mold type
- Low V_F
- High reliability
- Suffix "H" indicates Halogen-free parts, ex. RB521CS-30H



Maximum Ratings@ $T_A=25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Peak Forward Surge Current (60 Hz for 1 cyc.)	I_{FSM}	500	mA
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +150	$^\circ\text{C}$

Electrical Characteristics@ $T_A=25\text{ }^\circ\text{C}$

Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage	$I_R=150\mu\text{A}$	$V_{(BR)R}$	30	-	V
Forward Voltage	$I_F=10\text{mA}$	V_F	-	0.35	V
Reverse Current	$V_R=10\text{V}$	I_R	-	7	μA



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RATINGS AND CHARACTERISTIC CURVES

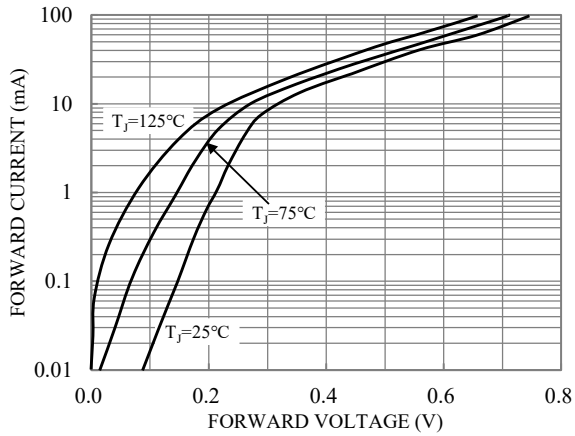


Fig.1-TYPICAL FORWARD CHARACTERISTICS

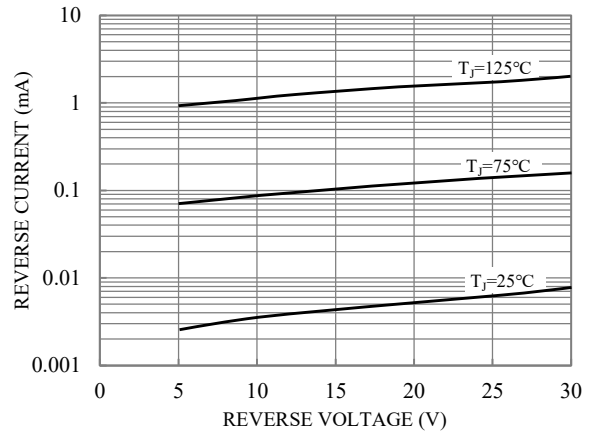


Fig.2-TYPICAL REVERSE CHARACTERISTICS

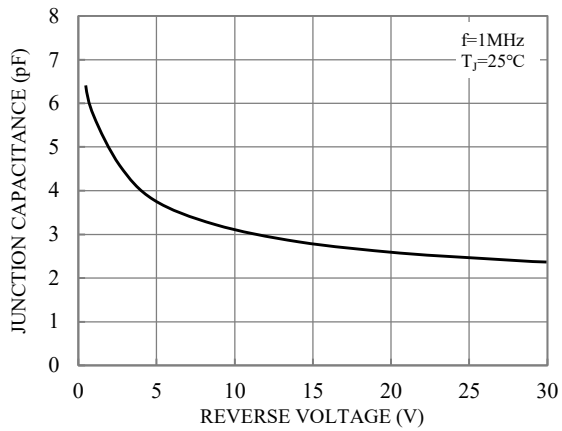


Fig.3-CAPACITANCE

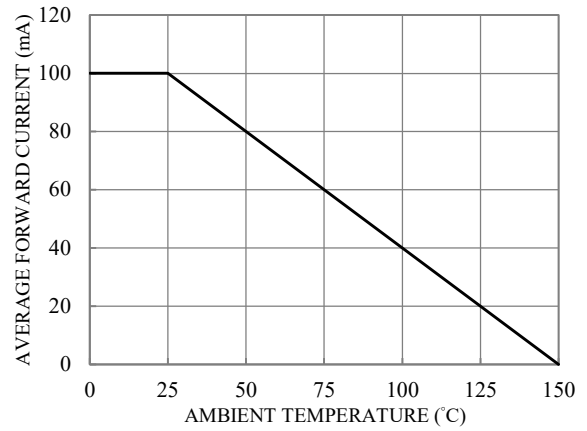


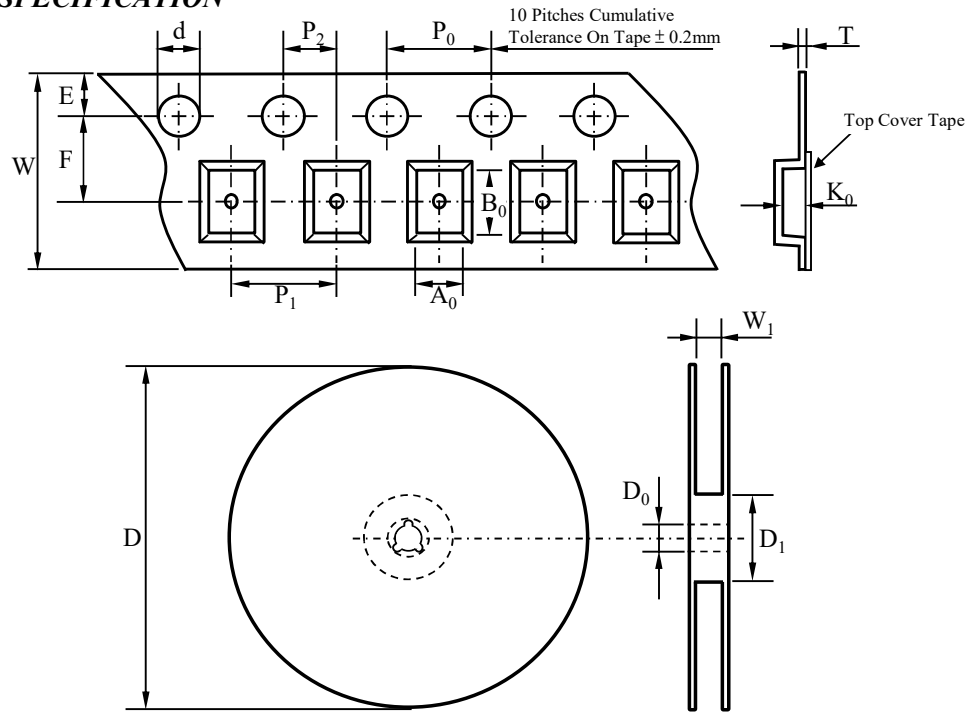
Fig.4-FORWARD CURRENT DERATING CURVE



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TAPE & REEL SPECIFICATION



Item	Symbol	DFN1006
Carrier width	A_0	*
Carrier length	B_0	
Carrier depth	K_0	
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D_0	13.00 ± 0.50
Reel inner diameter	D_1	MIN. 54.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P_0	4.00 ± 0.10
Punch hole pitch	P_1	2.00 ± 0.10
Embossment center	P_2	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	8.00 ± 0.30
Reel width	W_1	8.40 ± 1.50

Note *: A_0 , B_0 , and K_0 are determined by component size. The clearance between the components and the cavity must be within 0.05 mm min. to 0.5 mm max.

ORDER INFORMATION

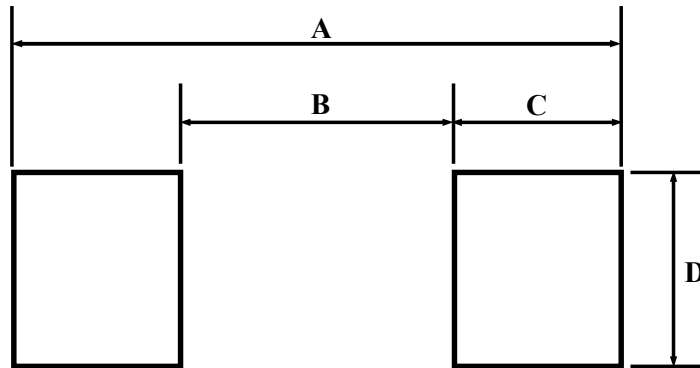
Part Number	Marking Code	Reel Size	Quantity
RB521CS-30H	F9	7"	10,000



RB521CS-30H

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SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
DFN1006	1.10	0.30	0.40	0.60