

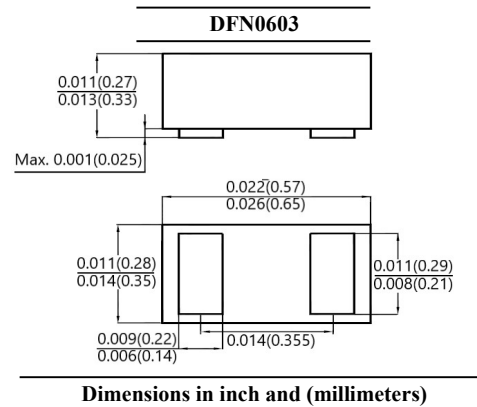


RB521-30DBH

SCHOTTKY DIODES

FEATURES

- Low forward voltage
- High reliability
- Suffix "H" indicates Halogen-free parts, ex. RB521-30DBH



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 (8.3ms)	I_{FSM}	500	mA
Operating 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	Typ.	Max.	Unit
Forward Voltage	$I_F = 10\text{ mA}$	V_F	-	0.37	V
Reverse Current	$V_R = 10\text{ V}$	I_R	-	7.0	μA



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Typical Characteristics

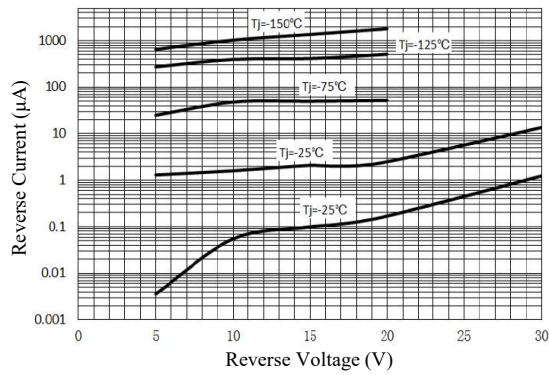


Fig 1. Reverse Characteristics

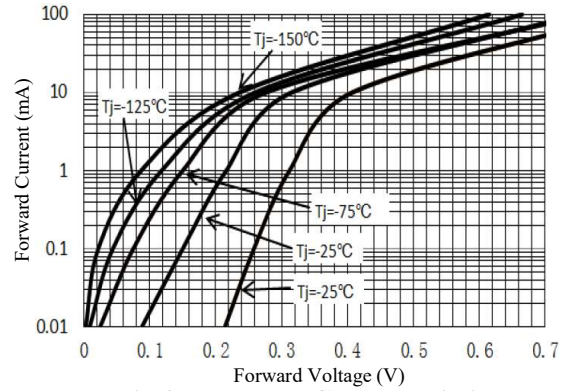


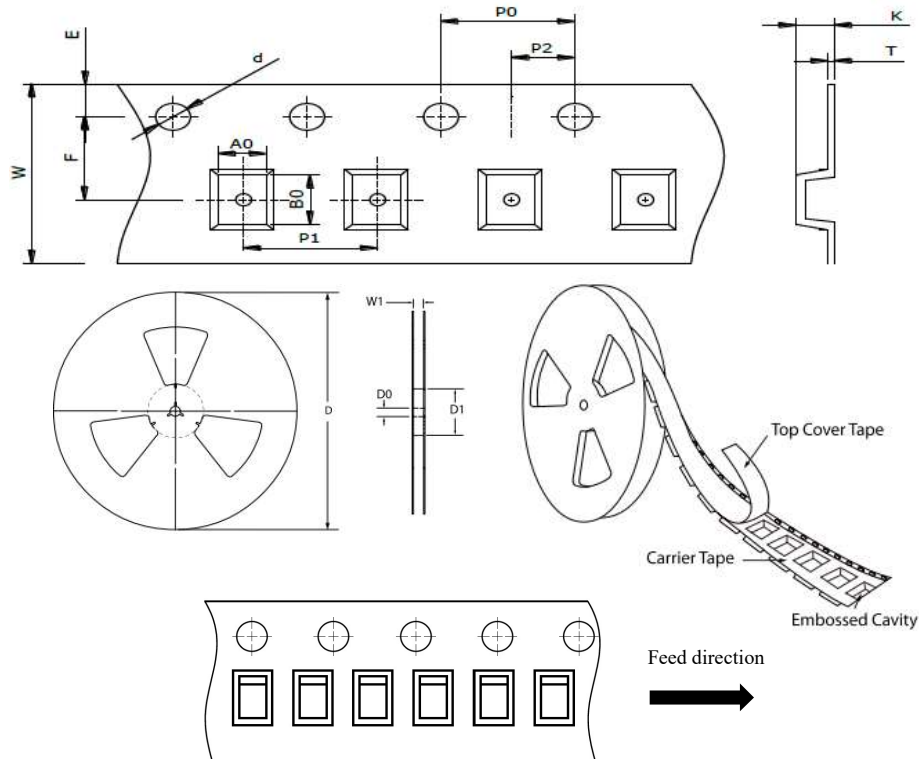
Fig 2. Forward Characteristics



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TAPE & REEL SPECIFICATION



Item	Symbol	DFN0603(0201)
Carrier width	A ₀	0.50 ± 0.10
Carrier length	B ₀	0.80 ± 0.10
Carrier depth	K	0.55 ± 0.10
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	W1	8.40 ± 1.50

ORDER INFORMATION

Package	Reel Size	Quantity
DFN0603(0201)	7"	10,000

MARKING CODE

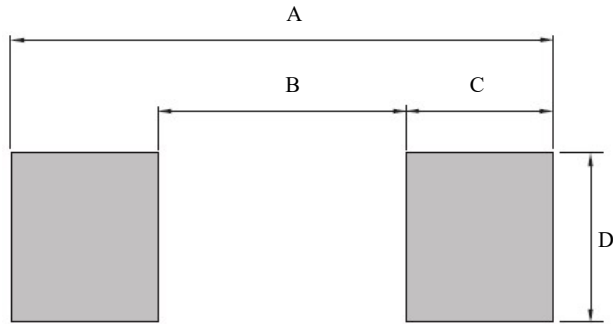
Part Number	Marking Code
RB521-30DBH	S4



RB521-30DBH

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



Unit:mm

PACKAGE	A	B	C	D
DFN0603 (0201)	0.675	0.175	0.25	0.27