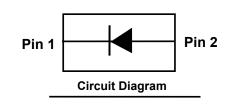


### PSD2FD100VU

### High Speed Switching Diode

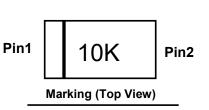
#### Description

The PSD2FD100VU is a high speed switching diode Pb-Free Packages are available



#### **Mechanical Characteristics**

- Mounting position: Any
- Qualified max reflow temperature:260°C
- > Device meets MSL 1 requirements
- DFN1006-2L without plating



### **Typical Characteristics**

Rating	Symbol	Value	Units	
Reverse voltage (repetitive peak)	Vrm	100	V	
Reverse voltage (DC)	V <sub>R</sub>	100	V	
Forward Current (repetitive peak)	IFM	215	mA	
Surge current (t=1µs)		4		
(t=1ms)	I <sub>surge</sub>	1	А	
(t=1s)		0.5		
Junction Temperature	TJ	150	°C	
Storage Temperature	T <sub>STG</sub>	-65 to +150	°C	

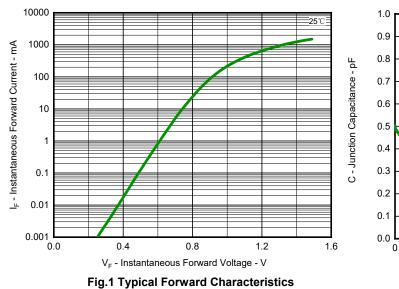
### Electrical characteristics per line@25°C( unless otherwise specified)

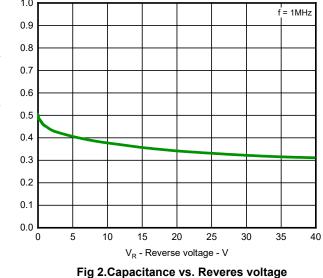
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward voltage	VF	I <sub>F</sub> = 150mA			1.25	V
Reverse current	IR	V <sub>R</sub> = 80V T=25°C			0.5	μA
Capacitance between terminal	Cd	V <sub>R</sub> =0V,f=1MHz			1.5	pF
Reverse recovery time	t <sub>rr</sub>	I⊧=10mA		1.6	4.0	ns

# High Speed Switching Diode

#### PSD2FD100VU

### **Typical Characteristics**





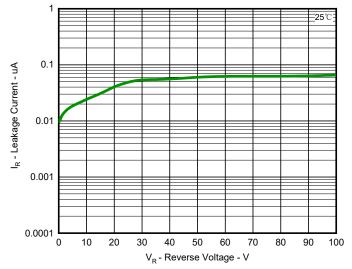
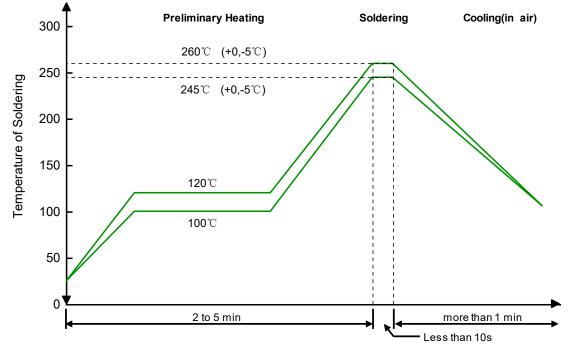


Fig 3.Typical Reverse Characteristics

# **High Speed Switching Diode**

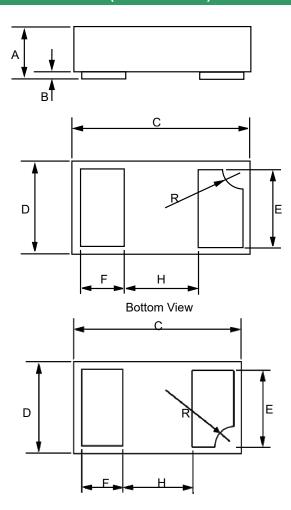
PSD2FD100VU

### Solder Reflow Recommendation

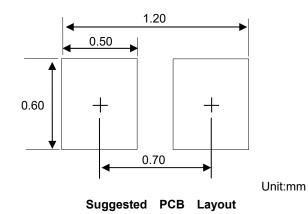


### Remark: Pb free for 260°C; Pb for 245°C.

### Product dimension (DFN1006-2L)



Dim	Inches		Millimeters		
Dim	MIN	МАХ	MIN	МАХ	
А	0.013	0.020	0.34	0.50	
В	0.000	0.002	0.00	0.05	
С	0.037	0.042	0.95	1.075	
D	0.021	0.026	0.55	0.675	
E	0.017	0.021	0.45	0.55	
F	0.007	0.011	0.20	0.30	
н	0.015Typ.		0.40Тур.		
R	0.001	0.005	0.05	0.15	



# High Speed Switching Diode

### PSD2FD100VU

# Ordering information

Device	Package	Shipping	
PSD2FD100VU	DFN1006-2L (Pb-Free)	10000 / Tape & Reel	

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