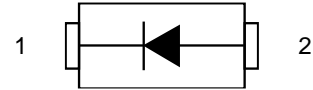


**Description**

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)	$V_{RM}$	100	V
Reverse voltage (DC)	$V_R$	100	V
Forward voltage (repetitive peak)	$I_{FM}$	215	mA
Surge current (t=1μs)	$I_{surge}$	4	A
(t=1ms)		1	
(t=1s)		0.5	
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-65 to +150	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward voltage	$V_F$	$I_F=150mA$			1.25	V
Reverse current	$I_R$	$V_R=80V T=25°C$			0.5	μA
Capacitance between terminal	$C_d$	$V_R=0V, f=1MHz$			1.5	pF
Reverse recovery time	$t_{rr}$	$I_F=10mA$		1.6	4.0	ns

Typical Characteristics

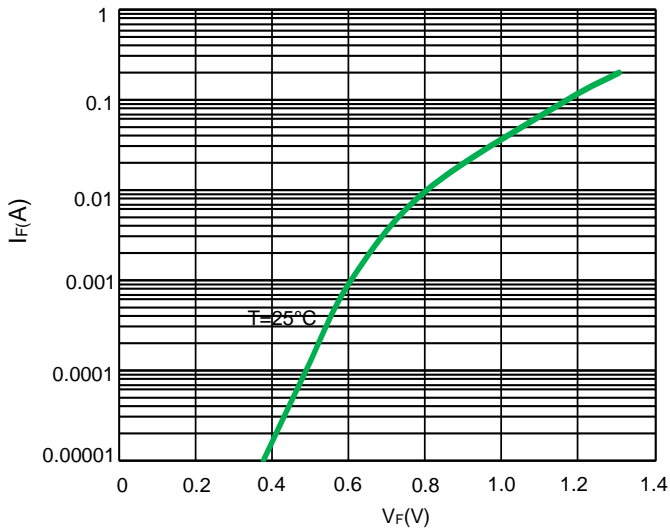


Fig1. Forward Voltage

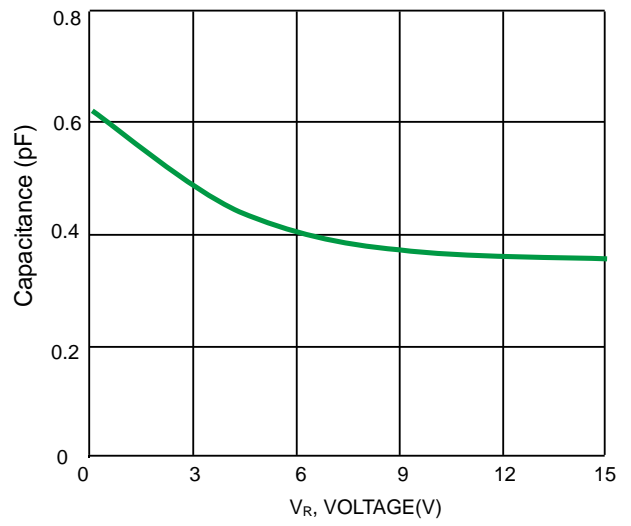
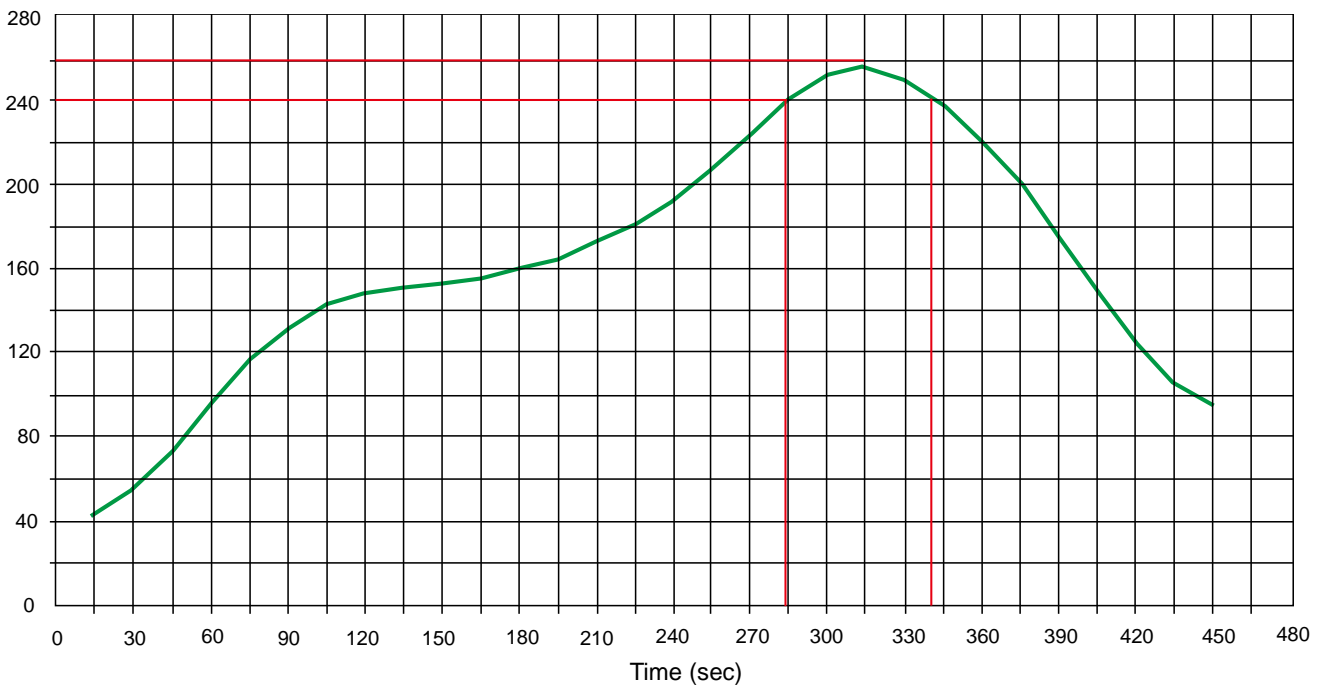


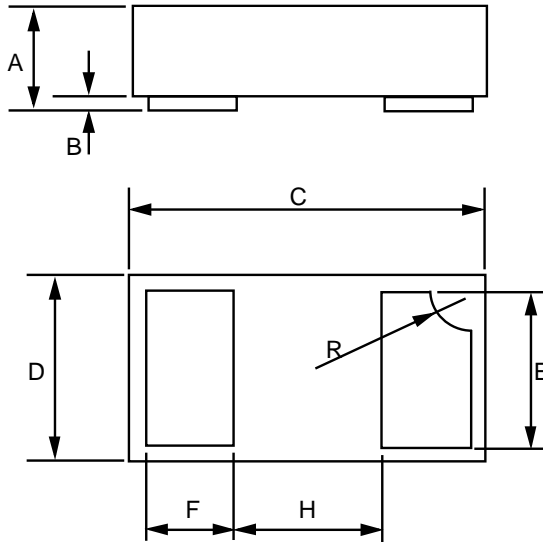
Fig2. Capacityance

Solder Reflow Recommendation

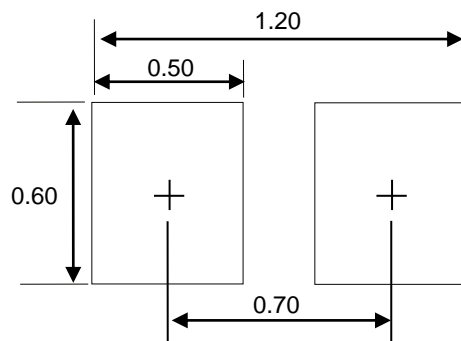
Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec



Product dimension (DFN1006-2L)



Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.013	0.020	0.34	0.50
B	0.000	0.002	0.00	0.05
C	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
H	0.015Typ.		0.40Typ.	
R	0.001	0.005	0.05	0.15




Unit:mm

Suggested PCB Layout

Ordering information

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


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