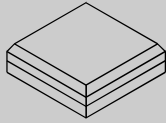


**D90FF06 - D90FF08  
D90F06 - D90F10**

**600 V - 1,000 V Rectifiers  
2.0 A Forward Current  
30 ns - 50 ns Recovery Time**



**ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS**

Part Number	Working Reverse Voltage (V <sub>rw</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rw</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current tp=8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impd. θ <sub>J-C</sub>	Junction Cap. @50VDC @1kHz (C <sub>j</sub> )
		55°C(1)	100°C(2)	25°C	100°C	25°C	25°C					
	Volts	Amps	Amps	μA	μA	Volts	Amps	Amps	Amps	ns	°C/ W	pF
D90FF06	600	2.0	1.0	1.0	25	3.0	1.0	30	5	30	0.8	40
D90FF08	800	2.0	1.0	1.0	25	3.5	1.0	30	5	30	0.8	40
D90F06	600	2.0	1.0	1.0	25	2.5	1.0	30	5	50	0.8	40
D90F08	800	2.0	1.0	1.0	25	3.0	1.0	30	5	50	0.8	40
D90F10	1000	2.0	1.0	1.0	25	3.0	1.0	30	5	50	0.8	40

(1) TC=55°C (2)TC=100°C (3)I<sub>f</sub>=0.5A, I<sub>r</sub>=1.0A, I<sub>rr</sub>=0.25A \*Op. Temp.= -65°C to +175°C Stg. Temp.= -65°C to +200°C

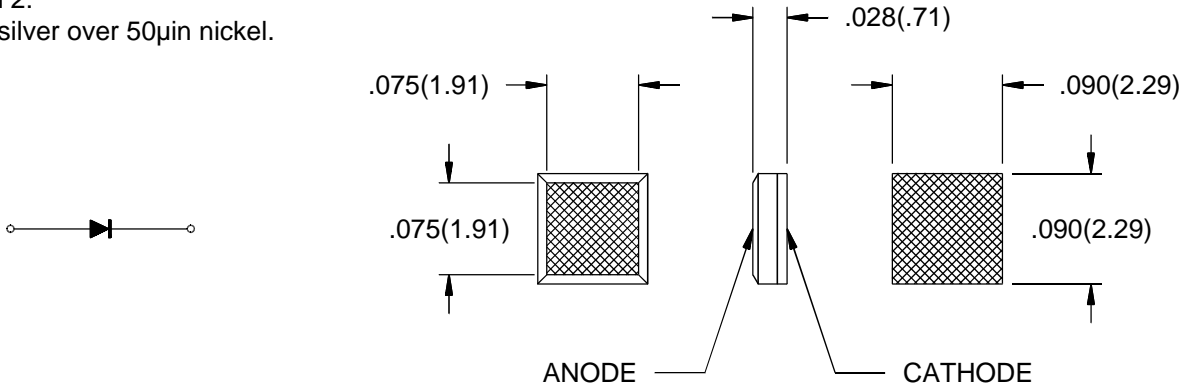
Plating:

Option 1:

50μin gold over 50μin nickel.

Option 2:

50μin silver over 50μin nickel.



Scale: 6 : 1

Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



**VOLTAGE MULTIPLIERS INC.**  
8711 W. Roosevelt Ave.  
Visalia, CA 93291

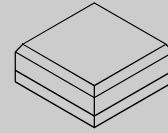
TEL 559-651-1402  
FAX 559-651-0740  
www.voltagemultipliers.com

# 1,000 V - 1,800 V Rectifiers

1.0 A Forward Current

30 ns - 50 ns Recovery Time

**D90FF10R**  
**D90FF18R**  
**D90F18R**



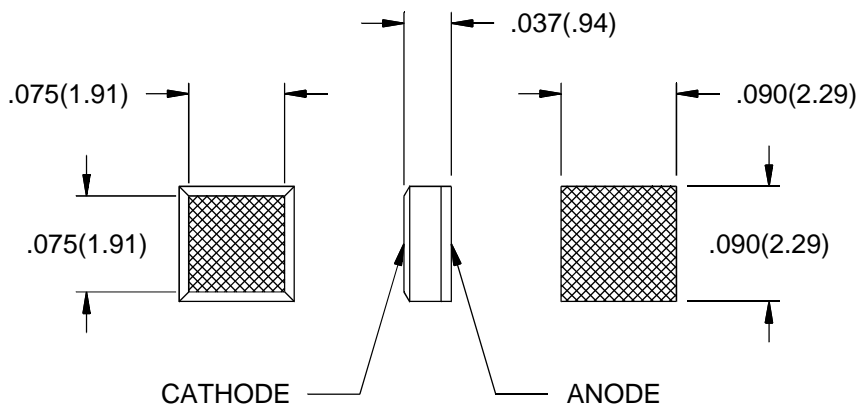
## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V <sub>rrm</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rrm</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current t <sub>p</sub> =8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impd. θ <sub>J-C</sub>	Junction Cap. @50VDC @1kHz (C <sub>j</sub> )
		55°C(1)	100°C(2)	25°C	100°C	25°C	25°C					
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/ W	pF
D90FF10R	1000	1.0	0.75	1.0	25	4.0	0.75	20	4	30	0.8	20
D90FF18R	1800	1.0	0.75	1.0	25	4.0	0.50	20	4	30	0.8	20
D90F18R	1800	1.0	0.75	1.0	25	4.0	0.50	20	4	50	0.8	20

(1) TC=55°C (2)TC=100°C (3)I<sub>f</sub>=0.5A, I<sub>r</sub>=1.0A, I<sub>rr</sub>=0.25A \*Op. Temp.= -65°C to +175°C Stg. Temp.= -65°C to +200°C

**7**

Plating:  
 Option 1:  
 50µin gold over 50µin nickel.  
 Option 2:  
 50µin silver over 50µin nickel.



Scale: 6 : 1



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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