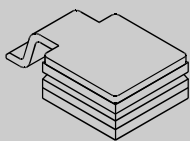


SD90U06 - SD90U10 SD90S06 - SD90S10

600 V - 1,000 V Rectifiers
4.0 A Forward Current
70 ns - 3000 ns Recovery Time

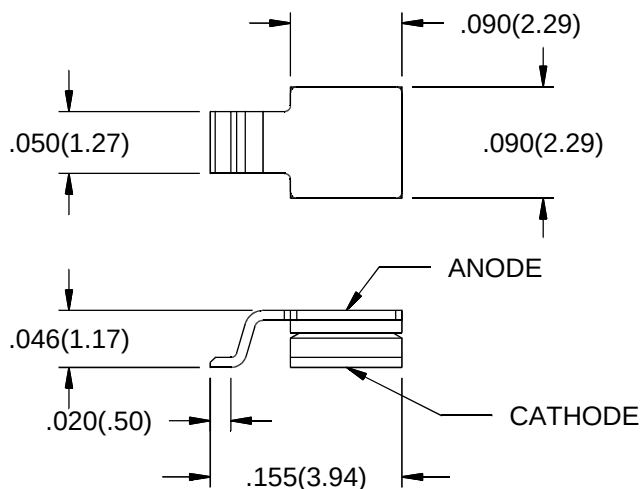
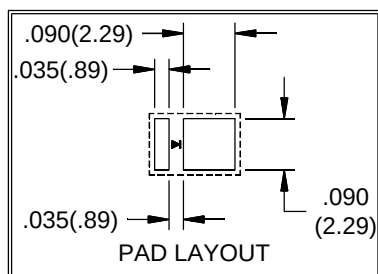


ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ Vrwm		Forward Voltage		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impd. θ_{J-C}	Junction Cap. @50VDC @1kHz (Cj)
	(Vrwm)	(Io)		(Ir)		(Vf)						
	Volts	55°C(1) Amps	100°C(2) Amps	25°C μA	100°C μA	25°C Volts	25°C Amps	25°C Amps	25°C Amps	25°C ns	25°C °C / W	25°C pF
SD90U06	600	4.0	2.0	1.0	25	1.7	3.0	40	10	70	0.8	40
SD90U08	800	4.0	2.0	1.0	25	1.7	3.0	40	10	70	0.8	40
SD90U10	1000	4.0	2.0	1.0	25	1.7	3.0	40	10	70	0.8	40
SD90S06	600	4.0	2.0	1.0	25	1.3	3.0	40	10	3000	0.8	40
SD90S08	800	4.0	2.0	1.0	25	1.3	3.0	40	10	3000	0.8	40
SD90S10	1000	4.0	2.0	1.0	25	1.3	3.0	40	10	3000	0.8	40

(1) TC=55°C (2)TC=100°C (3)If=0.5A, Ir=1.0A, Irr=0.25A *Op. Temp.= -65°C to +175°C Stg. Temp.= -65°C to +200°C

Plating:
Cathode:
50μin silver over 50μin nickel.
Anode Strap:
300μin fused tin lead 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

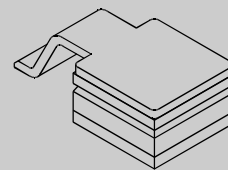
1,800 V Rectifiers

2.0 A Forward Current

70 ns - 3000 ns Recovery Time

SD90U18R

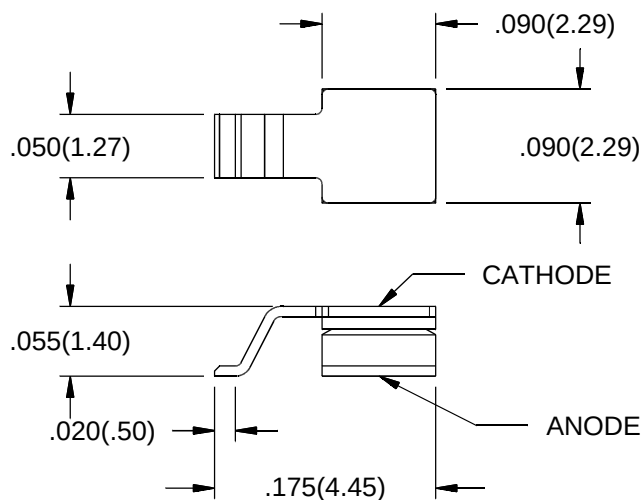
SD90S18R



ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ Vrwm		Forward Voltage		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impd. θ_{J-C}	Junction Cap. @50VDC @1kHz (Cj)
	(Vrwm)	(Io)		(Ir)		(Vf)						
	Volts	55°C(1) Amps	100°C(2) Amps	25°C μ A	100°C μ A	25°C Volts	25°C Amps	25°C Amps	25°C Amps	25°C ns	25°C °C/ W	25°C pF
SD90U18R	1800	2.0	1.0	1.0	25	3.6	0.50	20	5	70	0.8	20
SD90S18R	1800	2.0	1.0	1.0	25	2.6	1.5	20	5	3000	0.8	20

(1) TC=55°C (2)TC=100°C (3)If=0.5A, Ir=1.0A, Irr=0.25A *Op. Temp.= -65°C to +175°C Stg. Temp.= -65°C to +200°C



Scale: 6 : 1

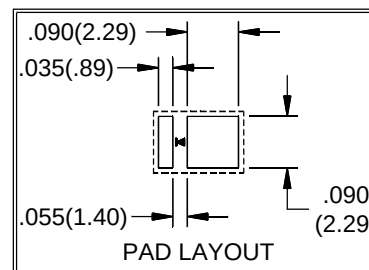
Plating:

Anode:

50 μ in silver over 50 μ in nickel.

Cathode Strap:

300 μ in fused tin lead over 50 μ in nickel.



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



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