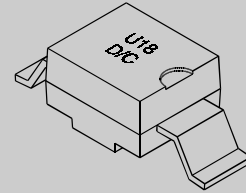


# 1,800 V Rectifiers

0.5 A - 1.5 A Forward Current

70 ns - 3000 ns Recovery Time

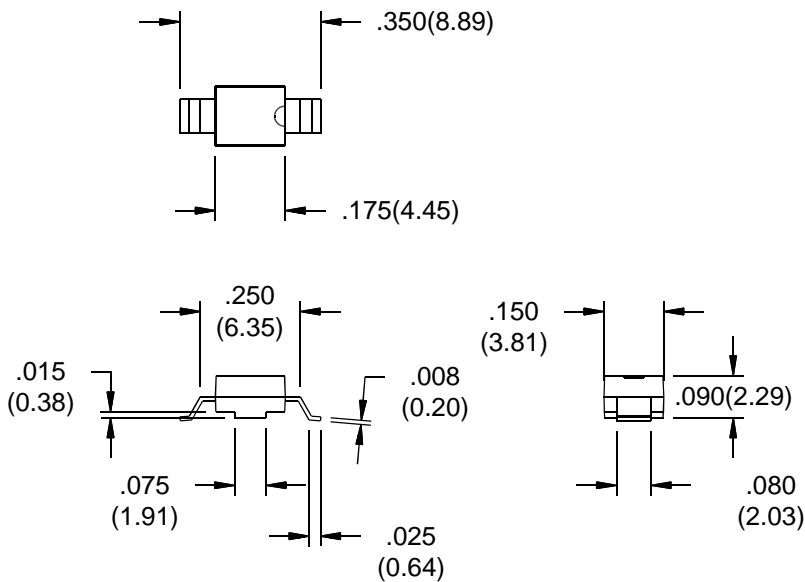
**MD90U18**  
**MD90S18**



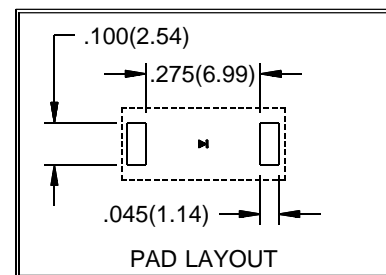
## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V <sub>rwm</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rwm</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-L</sub>	Junction Cap. @50VDC @1kHz (C <sub>j</sub> )	Markings
		55°C(1)	100°C(2)	25°C	100°C	25°C	25°C	25°C	25°C	25°C	25°C		
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/W	pF	
MD90U18	1800	1.00	0.50	1.0	25	3.6	0.50	20	5	70	13	20	U18
MD90S18	1800	1.00	0.50	1.0	25	2.6	1.50	20	5	3000	13	20	S18

(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:  
50µin silver over 50µin nickel.



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



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