

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N846 THRU 1N889

SILICON GENERAL PURPOSE DIODES

AXIAL LEAD GLASS CASE

**DESCRIPTION**

The CENTRAL SEMICONDUCTOR 1N846 series types are Silicon Diodes designed for general purpose medium current applications.

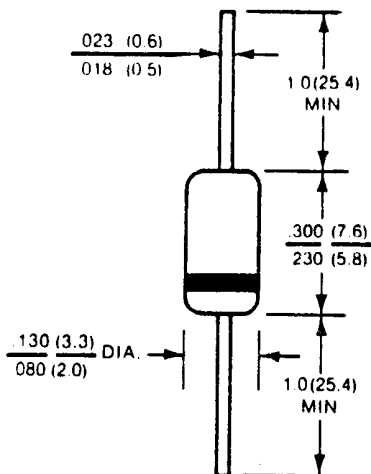
**MAXIMUM RATINGS** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

	846	847	848	849	850	851	852	853	854	855	856		
	857	858	859	860	861	862	863	864	865	866	867		
	868	869	870	871	872	873	874	875	876	877	878		
	879	880	881	882	883	884	885	886	887	888	889	UNIT	
Peak Working Reverse Voltage	$V_{RWM}$	50	100	200	300	400	500	600	700	800	900	1000	V
RMS Voltage	$V_{RMS}$	35	70	140	210	280	350	420	490	560	630	700	V
Average Foward Current	$I_O$					200							mA
Peak Forward Surge Current	$I_{FSM}$					2.0							A
Power Dissipation	$P_D$					400							mW
Operating and Storage	$T_J, T_{stg}$												$-65$ to $+175$
Junction Temperature													$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$I_R$	$V_R$ =Rated $V_{RMS}$		20	$\mu\text{A}$
$I_R$	$V_R$ =Rated $V_{RWM}$		100	$\mu\text{A}$
$V_F$	$I_F=200\text{mA}$	1.0		V

**OUTLINE DRAWING:** (Similar to JEDEC DO-7)



DIMENSIONS IN INCHES (MILLIMETERS)