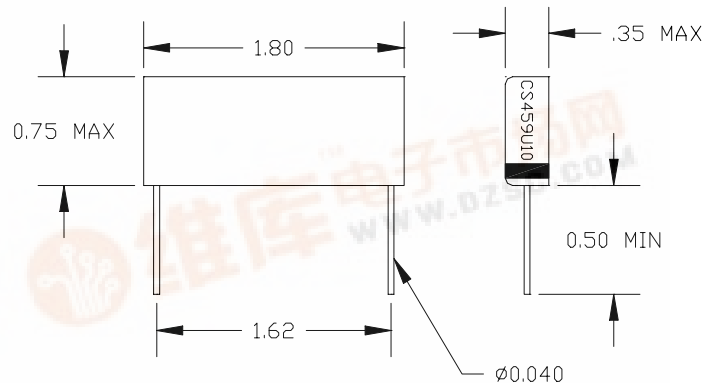


# CS459-Series

## High Voltage – High Current Rectifiers

RATINGS TO 12 KILOVOLTS  
GLASS PASSIVATED  
CONTROLLED AVALANCHE JUNCTIONS  
HIGH SURGE CAPABILITY  
DESIGNED FOR HIGH TEMPERATURE  
OPERATION  
ULTRAFAST RECOVERY TIMES OF 75 nS  
EFFICIENT USE OF PC BOARD AREA  
LARGE SURFACE AREA FOR COOLER  
OPERATION



STANDARD RECOVERY			ULTRAFAST RECOVERY			UNITS
CS 459			CS 459			
S8	S10	S12	U8	U10	U12	
8	10	12	8	10	12	kVOLT
1100	970	850	850	750	650	mAMP
2.0			1.5			AMP
80			45			AMP
- 55 to 150			- 55 to 150			DEG C

ELECTRICAL CHARACTERISTICS, T = 25C								
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE, I <sub>f</sub> = 2.0 amp	V <sub>fm</sub>	10.0	12.5	15.0	10.7	13.4	16.1	VOLTS
MAXIMUM REVERSE CURRENT AT RATED V <sub>r</sub>	I <sub>rm</sub>	10.0			10.0			uAMP
MAXIMUM REVERSE RECOVERY TIME, I <sub>f</sub> = 0.5 amp to I <sub>r</sub> = 1 amp	T <sub>rr</sub>	2.5			0.075			uSEC

Rev 1, 9/94



**HIGH VOLTAGE**  
POWER SYSTEMS, INC.

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