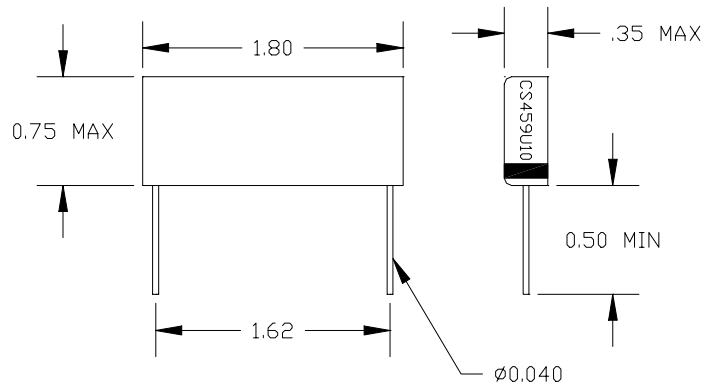


CS459-Series

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



ELECTRICAL RATINGS, T= 25C		STANDARD RECOVERY			ULTRAFAST RECOVERY			UNITS
		S8	S10	S12	U8	U10	U12	
REPETITIVE PEAK REVERSE VOLTAGE, AND CONTINUOUS REVERSE VOLTAGE	V _{rrm} , V _r	8	10	12	8	10	12	kVOLT
AVERAGE FORWARD CURRENT IN AIR, T _{amb} = 25C	I _o	1100	970	850	850	750	650	mAMP
AVERAGE FORWARD CURRENT, T _{oil} = 55C	I _o	2.0			1.5			AMP
PEAK SURGE CURRENT, NON-REPETITIVE, 1/2 cycle, 60 Hz	I _{fsm}	80			45			AMP
STORAGE AND OPERATING TEMPERATURES	T _{stg} , T _j	- 55 to 150			- 55 to 150			DEG C
ELECTRICAL CHARACTERISTICS, T = 25C								
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE, I _f = 2.0 amp	V _{fm}	10.0	12.5	15.0	10.7	13.4	16.1	VOLTS
MAXIMUM REVERSE CURRENT AT RATED V _r	I _{rm}	10.0			10.0			uAMP
MAXIMUM REVERSE RECOVERY TIME, I _f = 0.5 amp to I _r = 1 amp	T _{rr}	2.5			0.075			uSEC

Rev 1, 9/94



HIGH VOLTAGE
POWER SYSTEMS, INC.

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