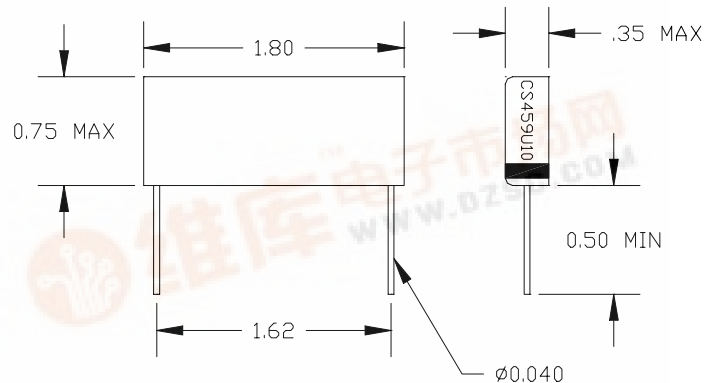


CS459-Series

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			
ELECTRICAL RATINGS, T= 25C		S8	S10	S12	U8	U10	U12	
REPETITIVE PEAK REVERSE VOLTAGE, AND CONTINUOUS REVERSE VOLTAGE	Vrrm, Vr	8	10	12	8	10	12	kVOLT
AVERAGE FORWARD CURRENT IN AIR, Tamb = 25C	Io	1100	970	850	850	750	650	mAMP
AVERAGE FORWARD CURRENT, Toil = 55C	Io	2.0			1.5			AMP
PEAK SURGE CURRENT, NON-REPETITIVE, 1/2 cycle, 60 Hz	Ifsm	80			45			AMP
STORAGE AND OPERATING TEMPERATURES	Tstg, Tj	- 55 to 150			- 55 to 150			DEG C

ELECTRICAL CHARACTERISTICS, T = 25C								
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE, If = 2.0 amp	Vfm	10.0	12.5	15.0	10.7	13.4	16.1	VOLTS
MAXIMUM REVERSE CURRENT AT RATED Vr	Irm	10.0			10.0			uAMP
MAXIMUM REVERSE RECOVERY TIME, If = 0.5 amp to Ir = 1 amp	Trr	2.5			0.075			uSEC

Rev 1, 9/94



HIGH VOLTAGE
POWER SYSTEMS, INC.

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