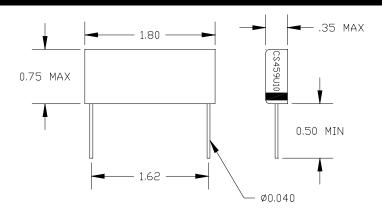
CS459-Series High Voltage – High Current Rectifiers

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			
		CS 459			CS 459			
ELECTRICAL RATINGS, T= 25C		S8	S10	S12	U8	U10	U12	UNITS
REPETITIVE PEAK REVERSE VOLTAGE, AND	Vrrm,							
CONTINUOUS REVERSE VOLTAGE	Vr	8	10	12	8	10	12	kVOLT
AVERAGE FORWARD CURRENT IN AIR,								
Tamb = 25C	lo	1100	970	850	850	750	650	mAMP
AVERAGE FORWARD CURRENT, Toil = 55C	lo	2.0		1.5			AMP	
PEAK SURGE CURRENT, NON-REPETITIVE,								
1/2 cycle, 60 Hz	lfsm	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