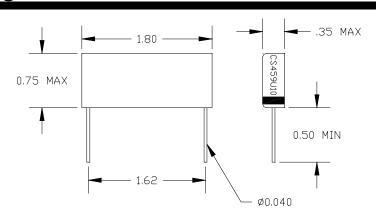
## CS459-Series High Voltage – High Current Rectifiers

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			1
ELECTRICAL RATINGS, T= 25C			S10	, S12	U8	U10	U12	UNITS
REPETITIVE PEAK REVERSE VOLTAGE, AND	\/rrm	S8	310	312	00	010	012	UNITS
·	Vrrm,		40	40	•	40	40	LVOLT
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	Ifsm	80			45			AMP
STORAGE AND OPERATING TEMPERATURES	Tstg,Tj	- 55 to 150			- 55 to 150			DEG C
ELECTRICAL CHARACTERISTICS, T = 25C	1				1			
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

