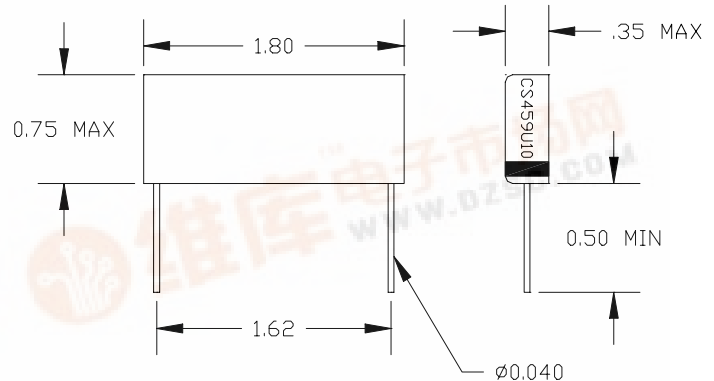


CS459-Series

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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