

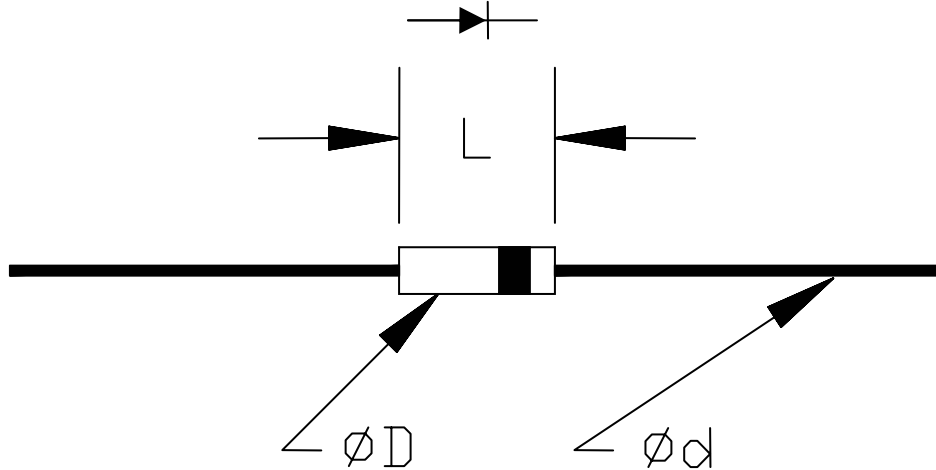


FEATURES

- Low Reverse Leakage Current
- Avalanche Grade Construction
- Plastic Material – UL Recognition
Flammability Classification 94V-0

Mechanical Data

- Case: Molded Resin
- Leads: Plated Copper
- Polarity: Indicated by Cathode Stripe



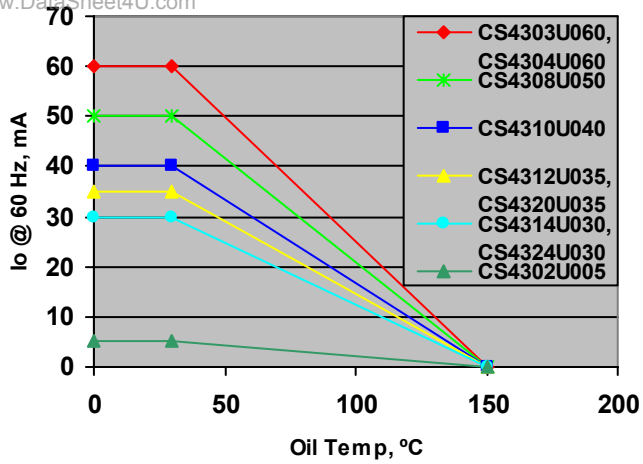
Maximum Ratings & Characteristics

| Mfr's Type | Max V_{RRM} kV | Max $I_o(1)$ mA | Max $I_{FSM}(2)$ A | Max $V_F(3)$ V | Max I_{RRM} μ A | Max $t_r(4)$ ns | L mm (in) Body Length | D mm (in) Body Dia | d mm (in) Lead dia |
|------------|------------------|-----------------|--------------------|----------------|-----------------------|-----------------|--------------------------|-----------------------|-----------------------|
| CS4302U005 | 2 | 5 | 0.3 | 12 | 0.5 | 80 | 3 (0.12) | 2.0 (0.08) | 0.50 (0.020) |
| CS4303U060 | 3 | 60 | 1.0 | 12 | 0.5 | 80 | 5 (0.20) | 2.5 (0.10) | 0.50 (0.020) |
| CS4304U060 | 4 | 60 | 1.0 | 15 | 0.5 | 80 | 5 (0.20) | 2.5 (0.10) | 0.50 (0.020) |
| CS4308U050 | 8 | 50 | 1.0 | 30 | 0.5 | 80 | 8 (0.31) | 3.0 (0.12) | 0.60 (0.024) |
| CS4310U040 | 10 | 40 | 0.5 | 36 | 0.5 | 80 | 10 (0.39) | 3.0 (0.12) | 0.60 (0.024) |
| CS4312U035 | 12 | 35 | 0.5 | 45 | 0.5 | 80 | 10 (0.39) | 3.0 (0.12) | 0.60 (0.024) |
| CS4314U030 | 14 | 30 | 0.5 | 51 | 0.5 | 80 | 10 (0.39) | 3.0 (0.12) | 0.60 (0.024) |
| CS4320U035 | 20 | 35 | 0.5 | 75 | 0.5 | 80 | 12 (0.67) | 3.0 (0.12) | 0.60 (0.024) |
| CS4324U030 | 24 | 30 | 0.5 | 75 | 0.5 | 100 | 15 (0.59) | 3.0 (0.12) | 0.60 (0.024) |

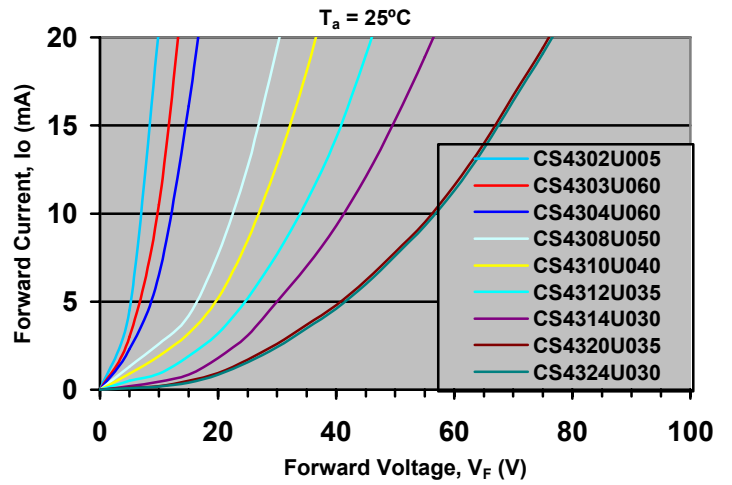
Notes: (1) Measured in 30°C Oil, 60 Hz (No switching losses);
 (2) ½ Cycle 60 Hz Sine Wave;
 (3) Measured at 2 X I_o , 30°C;
 (4) Measured at 30°C

Add a "T" to the end of the Part Number to designate Tape-and-Reel Packaging.

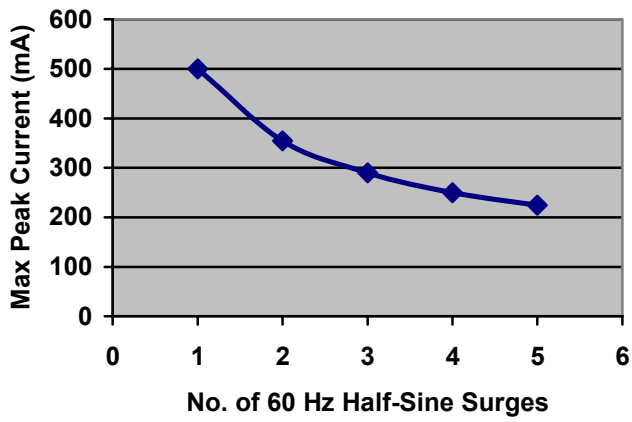
Output Current vs. Oil Temp.



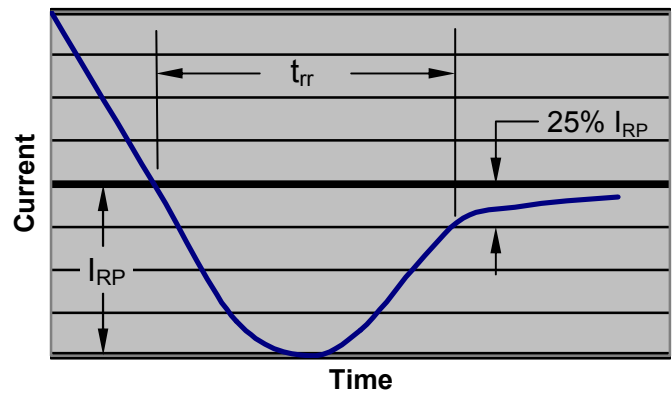
Instantaneous V_F vs. I_o



Max Surge Current



t_{rr} Definition



HIGH VOLTAGE
POWER SYSTEMS, INC.

2542 Highlander Way
Carrollton, TX 75006

CS4300U Series (Low Current)
Ultra-fast High Voltage Diodes