

• CURRENT REGULATOR CHIPS

- ALL JUNCTIONS COMPLETELY PROTECTED WITH SILICON DIOXIDE
- CONSTANT CURRENT OVER WIDE VOLTAGE RANGE
- HIGH SOURCE IMPEDANCE
- COMPATIBLE WITH ALL WIRE BONDING AND DIE ATTACH TECHNIQUES, WITH THE EXCEPTION OF SOLDER REFLOW

捷多邦，专业PCB打样工厂，24小时加急出货

CCR250 thru CCR257

**MAXIMUM RATINGS**

Operating Temperature: -55°C to +175°C

Storage Temperature: -55°C to +175°C

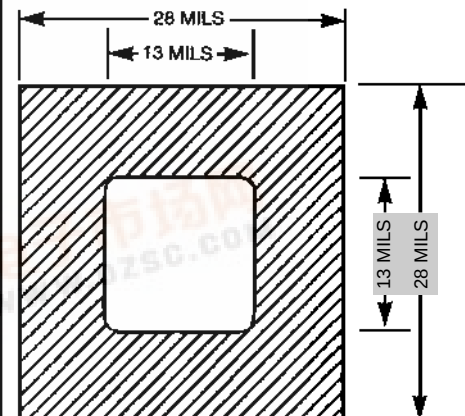
**ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified**

| TYPE<br>NUMBER | REGULATOR CURRENT<br>I <sub>p</sub> (mA) @ V <sub>S</sub> = 25V |      |       | MINIMUM<br>DYNAMIC<br>IMPEDANCE<br>@ V <sub>S</sub> = 25V<br>Z <sub>S</sub> (KΩ)<br>(Note 2) | MINIMUM<br>KNEE<br>IMPEDANCE<br>@ V <sub>K</sub> = 6.0 V<br>Z <sub>K</sub> (KΩ)<br>(Note 3) | MAXIMUM<br>LIMITING<br>VOLTAGE<br>@ I <sub>L</sub> = 0.8 I <sub>p</sub> (min)<br>V <sub>L</sub> (VOLTS) | PEAK<br>OPERATING<br>VOLTAGE<br>VOLTS |
|----------------|-----------------------------------------------------------------|------|-------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------|
|                | NOM                                                             | MIN  | MAX   |                                                                                              |                                                                                             |                                                                                                         |                                       |
| CCR250         | 5.10                                                            | 4.59 | 5.61  | 100                                                                                          | 4.0                                                                                         | 3.67                                                                                                    | 80                                    |
| CCR251         | 5.60                                                            | 5.04 | 6.16  | 90                                                                                           | 4.0                                                                                         | 4.03                                                                                                    | 80                                    |
| CCR252         | 6.20                                                            | 5.58 | 6.82  | 80                                                                                           | 3.0                                                                                         | 4.46                                                                                                    | 70                                    |
| CCR253         | 6.80                                                            | 6.12 | 7.48  | 70                                                                                           | 2.0                                                                                         | 4.90                                                                                                    | 70                                    |
| CCR254         | 7.50                                                            | 6.75 | 8.25  | 50                                                                                           | 1.5                                                                                         | 5.40                                                                                                    | 60                                    |
| CCR255         | 8.20                                                            | 7.38 | 9.02  | 30                                                                                           | 1.5                                                                                         | 5.90                                                                                                    | 60                                    |
| CCR256         | 9.10                                                            | 8.19 | 10.01 | 20                                                                                           | 1.0                                                                                         | 6.55                                                                                                    | 50                                    |
| CCR257         | 10.00                                                           | 9.00 | 11.10 | 10                                                                                           | 1.0                                                                                         | 7.20                                                                                                    | 50                                    |

**NOTE 1** I<sub>p</sub> is read using a pulse measurement, 10 milliseconds maximum.

**NOTE 2** Z<sub>S</sub> is derived by superimposing A 90Hz RMS signal equal to 10% of V<sub>S</sub> on V<sub>S</sub>

**NOTE 3** Z<sub>K</sub> is derived by superimposing A 90Hz RMS signal equal to 10% of V<sub>K</sub> on V<sub>K</sub>



Backside is Cathode  
A = Anode

**DESIGN DATA**

**METALLIZATION:**

Top: (Anode).....Al

Back: (Cathode).....Au

**AL THICKNESS**.....25,000 Å Min

**GOLD THICKNESS**.....4,000 Å Min

**CHIP THICKNESS**.....10 Mils

**TOLERANCES:** ALL Dimensions

± 2 mils, except Anode Pad where  
tolerance is ± 0.1 mils.



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