



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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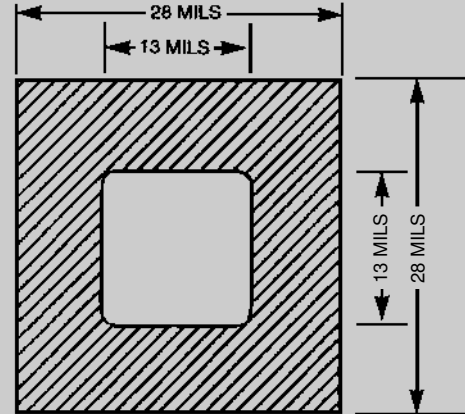


- CURRENT REGULATOR CHIPS
- ALL JUNCTIONS COMPLETELY PROTECTED WITH SILICON DIOXIDE
- CONSTANT CURRENT OVER WIDE VOLTAGE RANGE
- HIGH SOURCE IMPEDANCE
- COMPATIBLE WITH ALL WIRE BONDING AND DIE ATTACH TECHNIQUES, WITH THE EXCEPTION OF SOLDER REFLOW

CCR250 thru CCR257

**MAXIMUM RATINGS**

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



Backside is Cathode  
A = Anode

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

TYPE NUMBER	REGULATOR CURRENT $I_p$ (mA) @ $V_S = 25V$			MINIMUM DYNAMIC IMPEDANCE @ $V_S = 25V$ $Z_S$ (K) (Note 2)	MINIMUM KNEE IMPEDANCE @ $V_K = 6.0V$ $Z_K$ (K) (Note 3)	MAXIMUM LIMITING VOLTAGE @ $I_L = 0.8 I_p$ (min) $V_L$ (VOLTS)	PEAK OPERATING VOLTAGE 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

**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.

- NOTE 1**  $I_p$  is read using a pulse measurement, 10 milliseconds maximum.
- NOTE 2**  $Z_S$  is derived by superimposing A 90Hz RMS signal equal to 10% of  $V_S$  on  $V_S$
- NOTE 3**  $Z_K$  is derived by superimposing A 90Hz RMS signal equal to 10% of  $V_K$  on  $V_K$



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