INTERNATIONAL SEMICONDUCTOR, INC.

CURRENT REGULATOR DIODES

CR022 thru CR470

High Source Impedance

Standard Tolerance = þ10%

Tighter Tolerances Available

Constant Current Over Wide Voltage Range

Temperature Coefficient = -0.25~-0.45 %/°C

(Measured between 25°C and 50°C

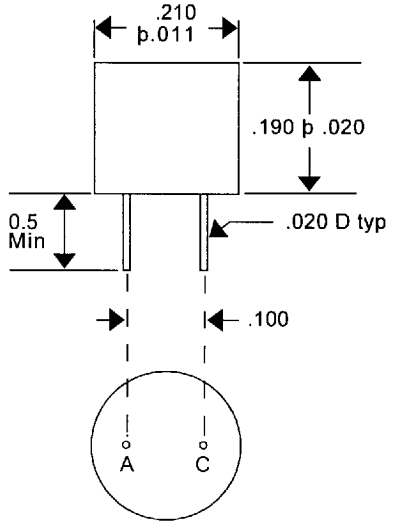
Part Number	I_P mA Nom.	V_K V Max.	Z_T Min K Ohm	Z_K Min K Ohm	POV V Max.
CR022	0.22	1.00	25.0	2.750	100
CR024	0.24	1.00	19.0	2.350	100
CR027	0.27	1.00	14.0	1.950	100
CR030	0.30	1.00	9.0	1.600	100
CR033	0.33	1.00	6.6	1.350	100
CR039	0.39	1.05	4.10	1.000	100
CR043	0.43	1.05	3.30	0.870	100
CR047	0.47	1.05	2.70	0.750	100
CR056	0.56	1.10	1.90	0.560	100
CR062	0.62	1.13	1.55	0.470	100
CR068	0.68	1.15	1.35	0.400	100
CR075	0.75	1.20	1.15	0.335	100
CR082	0.82	1.25	1.00	0.290	100
CR091	0.91	1.29	0.880	0.240	100
CR100	1.00	1.35	0.800	0.205	100
CR110	1.10	1.40	0.700	0.180	100
CR120	1.20	1.45	0.640	0.155	100
CR130	1.30	1.50	0.580	0.135	100
CR140	1.40	1.55	0.540	0.115	100
CR150	1.50	1.60	0.510	0.105	100
CR160	1.60	1.65	0.475	0.092	100
CR180	1.80	1.75	0.420	0.074	100
CR200	2.00	1.85	0.395	0.061	100
CR220	220	1.95	0.370	0.052	100
CR240	2.40	2.00	0.345	0.044	100
CR270	2.70	2.15	0.320	0.035	100
CR300	3.00	2.25	0.300	0.029	100
CR330	3.30	2.35	0.280	0.024	100
CR360	3.60	2.50	0.265	0.020	100
CR390	3.90	2.60	0.255	0.017	100
CR430	4.30	2.75	0.245	0.014	100
CR470	4.70	2.90	0.235	0.012	100

I_P = Pinch-Off Current: measured by pulse at 25°C

V_K = Voltage which produces 0.81 I_P or greater current

Z_T = Minimum AC Impedance when small AC signal voltage of 10 KHz is added to 25 Volt DC bias.

Z_K = Minimum knee impedance when the small AC signal voltage is added to V_K.



TO-18 Outline

All Dimensions in Inches

Glass Diodes encapsulated in liquid polymer case.

Case meets MIL-M-24519C, Type GLPC-30 F.

Case meets flammability requirements of UL 94V-O.

Leads are beryllium copper, 60/40 tin-lead plated per MIL-P-81728.