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!
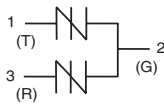

Contact us

Compak *TwinCHIP*™ *SIDACtor*® Device

RoHS

Littelfuse®

1 (T) 3 (R) 2 (G)

The modified DO-214AA *SIDACtor* devices provide low-cost, longitudinal protection.

SIDACtor devices enable equipment to comply with various regulatory requirements including GR 1089, ITU K.20, K.21, and K.45, IEC 60950, UL 60950, and TIA-968-A (formerly known as FCC Part 68).

Electrical Parameters

Part Number	V_{DRM} Volts	V_S Volts	V_{DRM} Volts	V_S Volts	V_T Volts	I_{DRM} µAmps	I_S mAmps	I_T Amps	I_H mAmps
	Pins 1-2, 2-3		Pins 1-3						
P1402C_L	58	77	116	154	4	5	800	2.2	120
P1602C_L	65	95	130	190	4	5	800	2.2	120
P2202C_L	90	130	180	260	4	5	800	2.2	120
P2702C_L	120	160	240	320	4	5	800	2.2	120
P3002C_L	140	180	280	360	4	5	800	2.2	120
P3602C_L	170	220	340	440	4	5	800	2.2	120
P4202C_L	190	250	380	500	4	5	800	2.2	120
P4802C_L	220	300	440	600	4	5	800	2.2	120
P6002C_L	275	350	550	700	4	5	800	2.2	120

* **"L" in part number indicates RoHS compliance.** For non-RoHS compliant device, delete "L" from part number.
  For surge ratings, see table below.

General Notes:
- All measurements are made at an ambient temperature of 25 °C. I_{PP} applies to -40 °C through +85 °C temperature range.
- I_{PP} is a repetitive surge rating and is guaranteed for the life of the product.
- Listed *SIDACtor* devices are bi-directional. All electrical parameters and surge ratings apply to forward and reverse polarities.
- V_{DRM} is measured at I_{DRM}.
- V_S is measured at 100 V/µs.
- Special voltage (V_S and V_{DRM}) and holding current (I_H) requirements are available upon request.
- UL 60950 creepage requirements must be considered.

Surge Ratings in Amps

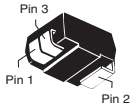| Series	I_{PP}									I_{TSM} 50 / 60 Hz	di/dt
	0.2x310 * 0.5x700 **	2x10 * 2x10 **	8x20 * 1.2x50 **	10x160 * 10x160 **	10x560 * 10x560 **	5x320 * 9x720 **	10x360 * 10x360 **	10x1000 * 10x1000 **	5x310 * 10x700 **		
	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps/µs
A	20	150	150	90	50	75	75	45	75	20	500
B	25	250	250	150	100	100	125	80	100	30	500

* Current waveform in µs
** Voltage waveform in µs

Note: Contact factory for release date of Series B.

Thermal Considerations

Package	Symbol	Parameter	Value	Unit
Modified DO-214AA	T_J	Operating Junction Temperature Range	-40 to +150	°C
	T_S	Storage Temperature Range	-65 to +150	°C
	$R_{\theta JA}$	Thermal Resistance: Junction to Ambient	85	°C/W

Capacitance Values

Part Number *	pF Pin 1-2 / 3-2 Tip-Ground, Ring-Ground		pF Pin 1-3 Tip-Ring	
	MIN	MAX	MIN	MAX
P1402C[A/B]L	30	55	15	35
P1602C[A/B]L	30	55	15	30
P2202C[A/B]L	25	50	15	30
P2702C[A/B]L	25	45	10	25
P3002C[A/B]L	20	40	10	25
P3602C[A/B]L	20	40	10	25
P4202C[A/B]L	20	40	10	25
P4802C[A/B]L	20	35	10	20
P6002C[A/B]L	15	35	10	20

* [A/B] in part number indicates that values are for both A and B surge ratings.
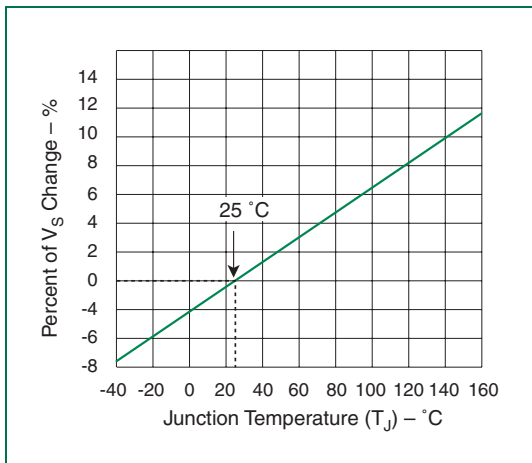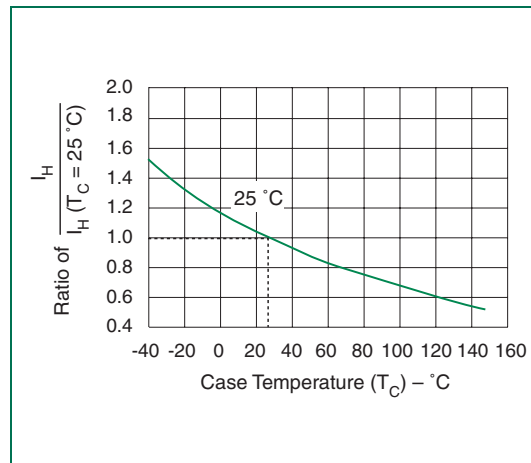Note: Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias.

Littelfuse®
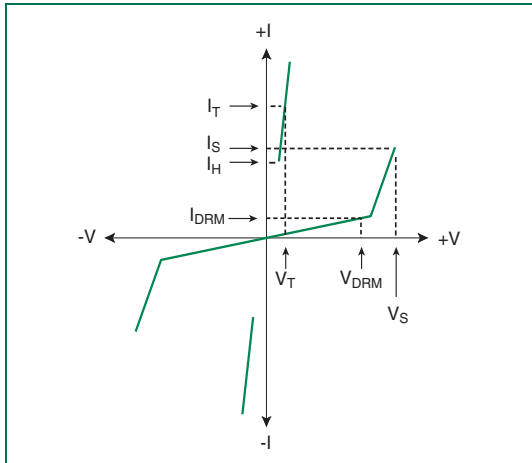
SIDACtor Devices

V-I Characteristics
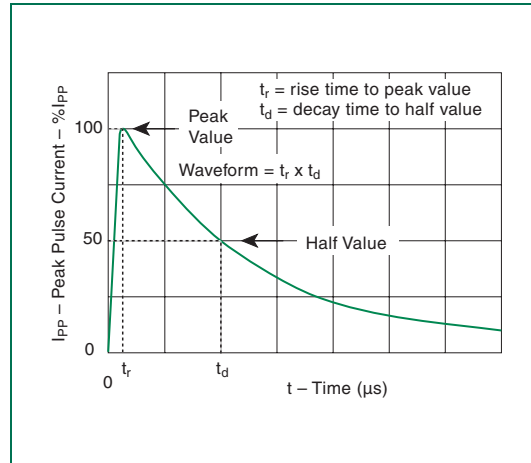
t_r x t_d Pulse Waveform

Normalized V_S Change versus Junction Temperature

Normalized DC Holding Current versus Case Temperature