



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



RoHS DO-41 Series SIDACtor® Device


Description

This DO-41 plastic package provides a through-hole version of the SIDACtor® devices. This axial lead device is ideal for Customer Premises Equipment (CPE) such as telephones, answering machines, modems, and fax interfaces. The DO-41 package series can also be used for overvoltage protection for applications such as T1/E1/J1 trunk cards when the appropriate overcurrent protection is included.

Features

- RoHS compliant
- Bidirectional transient voltage protection
- Axial lead through-hole component
- Teccor brand SIDACtor technology

Agency Approvals

Agency	Agency File Number
	E133083

Protection solution to meet

- YD/T 950
- YD/T 993
- YD/T 1082
- GR 1089 Intra-building
- IEC 61000-4-5
- ITU K.20/21 Basic Level
- TIA-968-A Type B Surges

Electrical Characteristics

Part Number	Marking	V_{DRM} @ $I_{DRM}=5\mu A$	V_s @ 100V/ μs	I_H	I_s	I_T	V_T @ $I_T=1$ amp	Capacitance @ 1MHz, 2V bias
		Volts	Volts	mAmps	mAmps	Amps	Volts	pF
		Min	Max	Min	Max	Max	Max	Typical
P1100THLRP	P11H	90	130	150	800	1.0	5	60
P1300THLRP	P13H	120	160	150	800	1.0	5	40
P1500THLRP	P15H	140	180	150	800	1.0	5	40
P1800THLRP	P18H	170	220	150	800	1.0	5	40
P2300THLRP	P23H	190	260	150	800	1.0	5	30
P2600THLRP	P26H	220	300	150	800	1.0	5	30
P3100THLRP	P31H	275	350	150	800	1.0	5	30
P3500THLRP	P35H	320	400	150	800	1.0	5	30

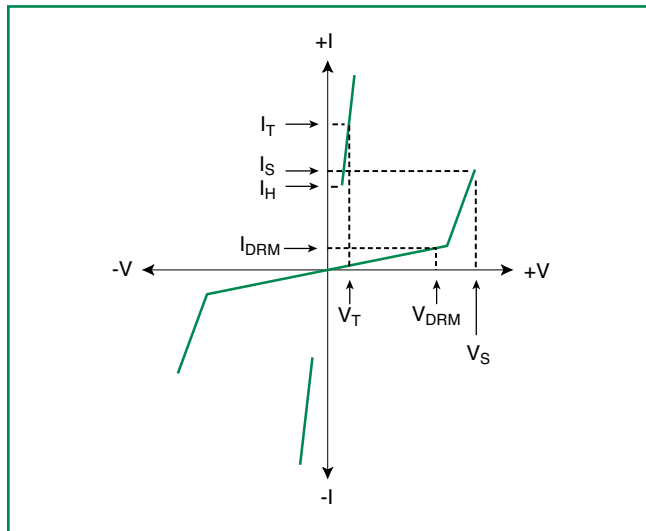
- All measurements are made at an ambient temperature of 25°C.
- Listed SIDACtor devices are bidirectional. All electrical parameters and surge ratings apply to forward and reverse polarities.

Surge Ratings

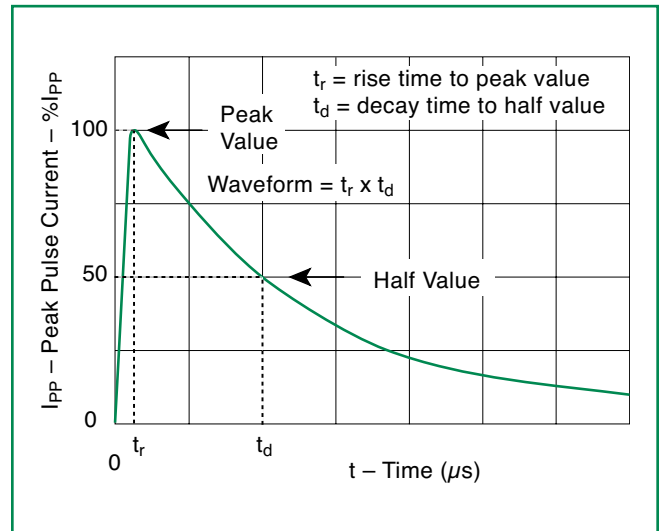
Series	I_{PP}	
	5x320 μ s	10x1000 μ s
	Amps	Amps
	Min	Min
H	25	35

- 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.

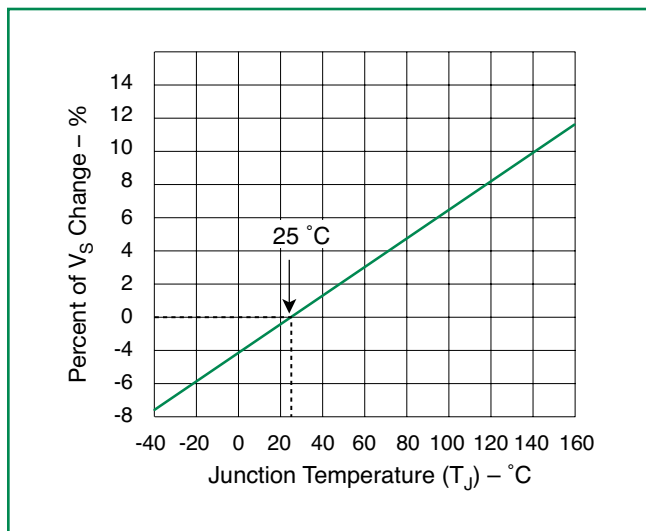
V-I Characteristics



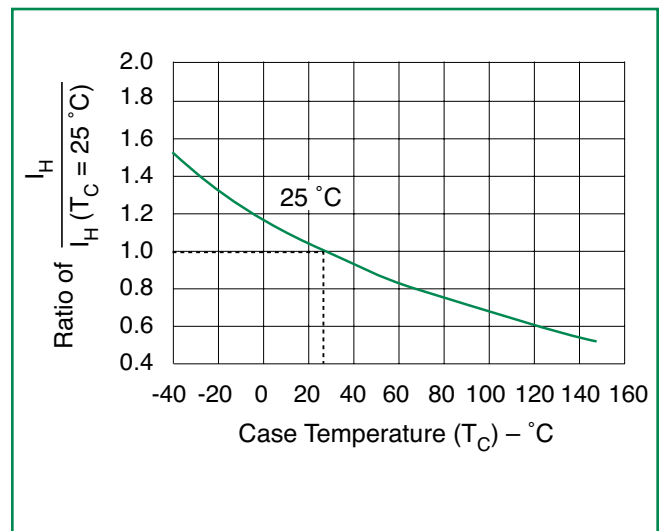
$t_r \times t_d$ Pulse Waveform



Normalized V_S Change Versus Junction Temperature

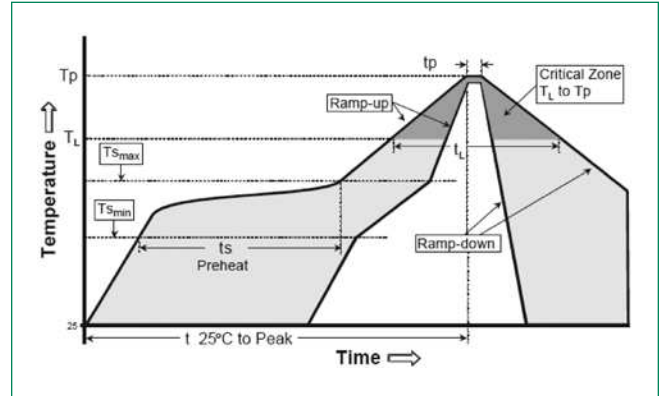


Normalized DC Holding Current Versus Case Temperature



Soldering Parameters

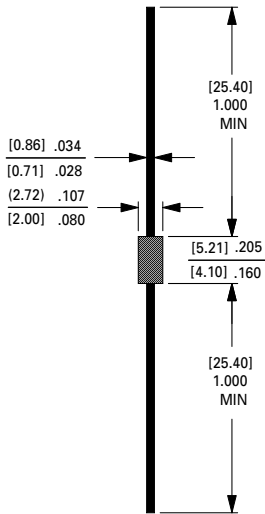
Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	190°C
	- Time (min to max) (t_s)	50 – 150 seconds
Average ramp up rate (Liquidus Temp (T_L) to peak)		5°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	220°C
	- Time (min to max) (t_s)	>60 – <150 seconds
Peak Temperature (T_p)		250 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		280°C



Physical Specifications

Terminal Material	Matte Tin-plated Axial leads
Lead Solderability	MIL-STD-750, Method 2026

Dimensions



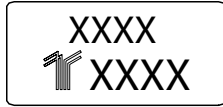
Dimensions in inches and (millimeters)

DO-41 SERIES

Environmental Specifications

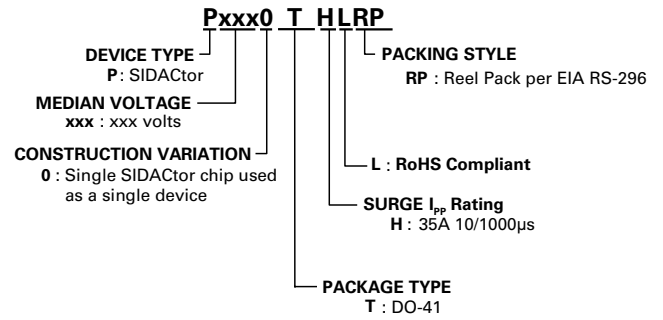
Operating/Storage Temperature	-40° C to ~ +150°C
Passive Aging	125° C, 1000 hours Meet Spec
Humidity Aging	+85°C, 85% R.H. 1000 hours Meet Spec
Thermal Shock	MIL-STD-202 Method 107G +85°C/-40°C 100 times Meet Spec
Solvent Resistance	MIL-STD-202, Method 215 No Change
Vibration	MIL-STD-883C, Method 2007.1, Condition A No Change

Part Marking System



First Line: Product Name (see marking column in table on page 1)
 Second Line: Lot number

Part Numbering System



Packaging

Package Type	Description	Packing Quantity	Added Suffix	Industry Standard
DO-41	Axial	5000	RP	EIA RS-296

Tape and Reel Specification

Symbol	Case Type	Inches	MM
A	Component Spacing (lead to lead)	0.200 ± 0.020"	5.08 ± 0.508
B	Tape Spacing	2.062 ± 0.059"	52.37 ± 1.498
C	Tape Width	0.250"	6.35
D	Max. Off Alignment	0.048"	1.219
E	Reel Dimension	13"	330.2
F	Max Hub Recess	3"	76.19
G	Max. Abor Hole	0.68"	17.27
H	Reel Dimension	2.75"	69.85

