

PRODUCT CHANGE NOTIFICATION

PCN-000493

Date: 24MAY2019

P1/2

☒	Semtech Corporation, 200 Flynn Road, Camarillo CA 93012
☐	Semtech Canada Corporation, 4281 Harvester Road, Burlington, Ontario L7L 5M4 Canada
☐	Semtech Irvine, 5141 California Ave., Suite 100, Irvine CA 92617
☐	Semtech Neuchatel Sarl, Route des Gouttes d'Or 40, CH-2000 Neuchatel Switzerland
☐	Semtech Bristol - EMEA Limited, Block B, St James Court, Great Park Road, Bristol BS32 4QJ, UK
☐	Semtech Corpus Christi SA de CV, Carretera Matamorros Edificio 7, Reynosa, Tamaulipas, Mexico 88780
☐	Semtech Plano, 1101 Resource Drive, Suite 121, Plano TX 75074

Change Details

Part Number(s) Affected: SDC36C.TCT	Customer Part Number(s) Affected: ☒ N/A
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Description, Purpose and Effect of Change:

Semtech is transferring this part to ASMC's 8" wafer fabrication line from their 5" fabrication line and adding Diodes as an assembly and test manufacturing site. This will bring additional capacity to the manufacturing of this part.

The transfer of this part to the 8" fabrication line and to Diodes assembly necessitates some minor changes to the device datasheet parameters. These changes are listed in the tables below:

	POD Change	
DIM	Max (original)	Max (modified)
A	1.12mm	1.20mm
A2	1.02mm	1.10mm

	Electrical Change	
DIM	Max (original)	Max (modified)
Junction Capacitance	100pF	120pF

Change Classification	☒ Major ☐ Minor	Impact to Form, Fit, Function	☐ Yes ☒ No
Impact to Data Sheet	☒ Yes ☐ No	New Revision or Date	Rev 2. ☐ N/A

Impact to Performance, Characteristics or Reliability:

There is no impact to the reliability of the device.

As outlined above, the transfer of this part to the 8" fabrication line and to Diodes assembly necessitates some minor changes to the device datasheet parameters.



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P2/2

Implementation Date	August 31, 2019	Work Week	To Be Advised
Last Time Ship (LTS) Of unchanged product	N/A	Affecting Lot No. / Serial No. (SN)	N/A
Sample Availability	Immediate	Qualification Report Availability	Attached
Supporting Documents for Change Validation/Attachments: • Reliability Report • Device Datasheet			
Issuing Authority			
Semtech Business Unit:	Protection		
Semtech Contact Info:	Les Fang Yuen Semtech Corporation Sr. Engineering Manager, QA 200 Flynn Road Camarillo, CA 93012 lfangyuen@semtech.com Office: (949) 269-4443		
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support			

Rel Job Detail Report

by Sublot, by Sequence
Contact: Gurmail Sajjan
(805) 480 2142
gsajjan@semtech.com

Businessunit	Protection			
Reljob#	Part_Number, Job Name/Type	Fab, Package	Rel Job Status	Key Dates:
6315	SDC36C	ASMC12TVS	Rel Testing Complete Passes All Requirements	Job Accepted: 20-Mar-2017
	Package Qual	SOT-23		Requested CD:
	New Product on qualified process with un-qualified package			Actual Start Date: 16-Feb-2017
				ECD for Conditional:
				Job ECD: 28-Apr-2017

Completed Tasks

1.0	Lot	EP4698.00F	AssemblyLot	AER-003913	DateCode	1706	
Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	03-Mar-2017		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	08-Mar-2017	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	10-Mar-2017	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	03-Mar-2017	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	03-Mar-2017	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	06-Mar-2017	0	Camarillo	
7	HTRB_150°C_0408	105	Pass on Zero Fails	20-Mar-2017	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	07-Mar-2017	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	14-Mar-2017	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	28-Mar-2017	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	18-Apr-2017	0	Camarillo	
12	85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	07-Mar-2017	0	Camarillo	
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	07-Mar-2017	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	13-Mar-2017	0	Camarillo	
15	Pre_Conditioning_Level_1	NA	MSL 1	07-Mar-2017		Camarillo	

Rel Job Detail Report

by Sublot, by Sequence
Contact: Gurmail Sajjan
(805) 480 2142
gsajjan@semtech.com

16 Pre_Elect_Precond	154	Pass on Zero Fails	07-Mar-2017	0	Camarillo
17 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	07-Mar-2017	0	Camarillo
18 Precond_HTS_24hr	154	Pass on Zero Fails	08-Mar-2017	0	Camarillo
19 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	15-Mar-2017	0	Camarillo
20 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	15-Mar-2017	0	Camarillo
21 T/C_Pre_Elect	77	Pass on Zero Fails	15-Mar-2017	0	Camarillo
22 T/C_wPre_0250	77	Pass on Zero Fails	22-Mar-2017	0	Camarillo
23 T/C_wPre_0500	77	Pass on Zero Fails	27-Mar-2017	0	Camarillo
24 T/C_wPre_1000	77	Pass on Zero Fails	05-Apr-2017	0	Camarillo
25 Cross_Section TC 1000 Cyc	15	Pass on Zero Fails	05-Apr-2017	0	Camarillo
26 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	15-Mar-2017	0	Camarillo
27 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	23-Mar-2017	0	Camarillo
28 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	06-Apr-2017	0	Camarillo
29 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	27-Apr-2017	0	Camarillo
30 Cross_Section 85°C/85%	15	Pass on Zero Fails	27-Apr-2017	0	Camarillo
31 CSAM Analysis	22	Pass on Zero Fails	07-Mar-2017	0	Camarillo
32 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	08-Mar-2017	0	Camarillo
33 Precond_HTS_24hr	22	Pass on Zero Fails	09-Mar-2017	0	Camarillo
34 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	16-Mar-2017	0	Camarillo
35 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	16-Mar-2017	0	Camarillo
36 CSAM Analysis	22	Pass on Zero Fails	17-Mar-2017	0	Camarillo
37 Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	27-Mar-2017	0	Camarillo
38 Rider_Card_Wash/Bake	154		06-Mar-2017	0	Camarillo
39 Pack_Clos	0	0	28-Apr-2017		Camarillo

2.0 Lot EP4698.00F AssemblyLot AER-003915 DateCode 1706

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
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1 Data-Prep	None	None	03-Mar-2017		Camarillo
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3 HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	14-Mar-2017	0	Camarillo
4 HTRB_Pre_Elect	105	Pass on Zero Fails	03-Mar-2017	0	Camarillo
5 BI_BD_Valid	NA	Meet HTOL Schematics	03-Mar-2017	0	Camarillo
6 HTRB_150°C_0072	105	Pass on Zero Fails	06-Mar-2017	0	Camarillo
7 HTRB_150°C_0408	105	Pass on Zero Fails	20-Mar-2017	0	Camarillo
8 HTS_Pre_Elect	77	Pass on Zero Fails	07-Mar-2017	0	Camarillo
9 HTS_0168	77	Pass on Zero Fails	14-Mar-2017	0	Camarillo
10 HTS_0500	77	Pass on Zero Fails	28-Mar-2017	0	Camarillo
11 HTS_1000	77	Pass on Zero Fails	18-Apr-2017	0	Camarillo
12 85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	07-Mar-2017	0	Camarillo
13 85°C/85%RH_BD_Valid	20	Pass on Zero Fails	07-Mar-2017	0	Camarillo
14 85/85_120hr_On/Off	20	Pass on Zero Fails	13-Mar-2017	0	Camarillo
15 Pre_Elect_Precond	154	Pass on Zero Fails	07-Mar-2017	0	Camarillo
16 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	07-Mar-2017	0	Camarillo
17 Precond_HTS_24hr	154	Pass on Zero Fails	08-Mar-2017	0	Camarillo
18 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	15-Mar-2017	0	Camarillo
19 Precond_IR_Refl_Char	154	Pass on Zero Fails	15-Mar-2017	0	Camarillo
20 T/C_Pre_Elect	77	Pass on Zero Fails	15-Mar-2017	0	Camarillo
21 T/C_wPre_0250	77	Pass on Zero Fails	22-Mar-2017	0	Camarillo
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25 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	15-Mar-2017	0	Camarillo
26 85°C/85%RH_BD_Valid	77	Pass on Zero Fails	16-Mar-2017	0	Camarillo
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28 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	06-Apr-2017	0	Camarillo
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31 Rider_Card_Wash/Bake	154	Pass on Zero Fails	06-Mar-2017	0	Camarillo
32 CSAM Analysis	22	Pass on Zero Fails	07-Mar-2017	0	Camarillo
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34 Precond_HTS_24hr	22	Pass on Zero Fails	09-Mar-2017	0	Camarillo
35 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	16-Mar-2017	0	Camarillo
36 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	16-Mar-2017	0	Camarillo
37 CSAM Analysis	22	Pass on Zero Fails	17-Mar-2017	0	Camarillo
38 Pack_Clos	0	0	28-Apr-2017		Camarillo

3.0	Lot	EP4698.00F	AssemblyLot	AER-003916	DateCode	1706
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38 Pack_Clos	0	0	28-Apr-2017		Camarillo

PROTECTION PRODUCTS

Description

The SDC36C is a high-surge transient voltage suppressor (TVS) optimized for protection of sensitive digital sensors used in proximity switches and industrial control applications. The SDC36C protects the components from over-voltages caused by electrostatic discharge (ESD), electrical fast transients (EFT), and tertiary lightning. The unique design of the SDC36C incorporates two TVS diodes in a compact package for applications where board space is at a premium. The single package provides protection for the I/O line and power supply rail with high surge capabilities (4 Amps at $t_p=1.2/50\mu s$) and an exceptionally low clamping voltage of $<47V$.

The SDC36C replaces up to two large discrete diodes providing the designer an easy to implement integrated solution. The SDC36C is in a 3-pin, RoHS/WEEE compliant, SOT-23 package. The small size and unique features of the SDC36C make it ideal for protection of two, three, and four wire DC high-side proximity switches.

Features

- Transient Protection to
 - ♦ IEC 61000-4-2 (ESD): 15kV (Air), 8kV (Contact)
 - ♦ IEC 61000-4-4 (EFT): 40A (5/50ns)
 - ♦ IEC 61000-4-5 (Lightning): 4A (8/20 μs)
- Replaces Two Discrete Devices
- Protects Two Lines
- Working Voltage: 33V
- High Surge capability
- Solid-State Silicon-Avalanche Technology

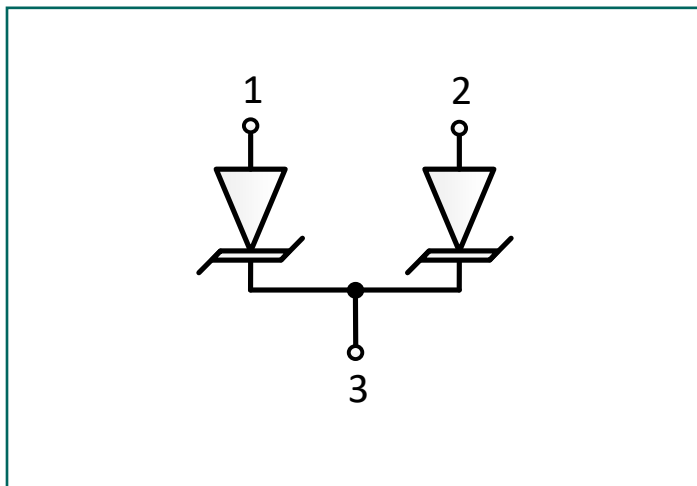
Mechanical Characteristics

- JEDEC SOT-23 Package
- Pb-Free, Halogen Free, RoHS/WEEE Compliant
- Molding Compound Flammability Rating: UL 94V-0
- Marking : Marking Code
- Packaging : Tape and Reel

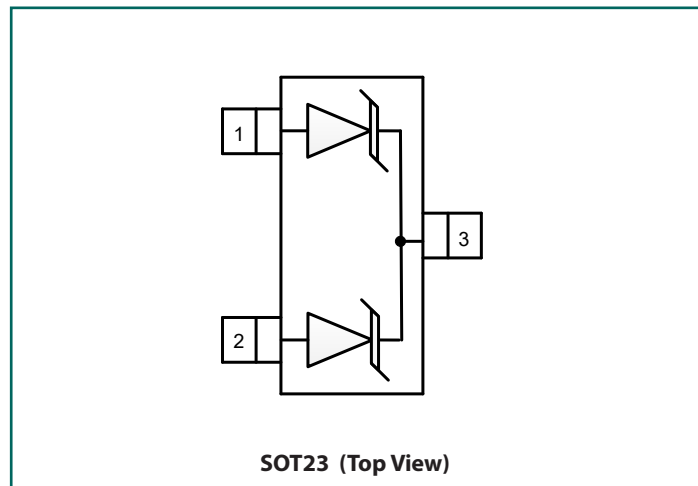
Applications

- Two, Three, and Four Wire DC High-Side Proximity Switch
- I/O Link
- Digital Sensor Input Protection
- Industrial Equipment

Circuit Diagram



Schematic and Pin Configuration



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{PK}	350	W
Peak Pulse Power ($t_p = 1.2/50\mu s$)	P_{PK}	225	W
Peak Pulse Current ($t_p = 1.2/50\mu s$)	I_{PP}	4	A
Non-Repetitive Peak Forward Current ($t_p = 100\mu s$)	I_{FSMAX}	4	A
Operating Temperature	T_J	-55to +125	°C
Storage Temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics (T=25°C unless otherwise specified)

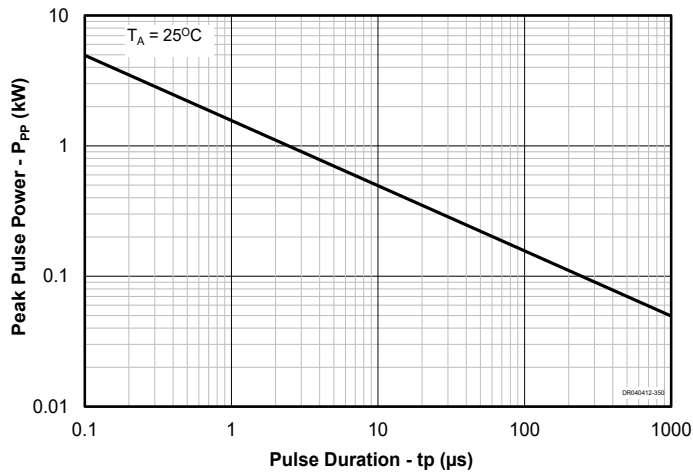
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage	V_{RWM}	-40°C to 125°C, Pin 3 to Pin 1 or 2			33	V
Reverse Breakdown Voltage	V_{BR}	$I_t = 1mA$, Pin 3 to Pin 1 or 2	35			V
Reverse Leakage Current	I_R	$V_{RWM} = 33V$	$T = 25^\circ C$		5	μA
			$T = 85^\circ C$		25	μA
Clamping Voltage	V_C	$I_{PP} = 2A$, $t_p = 1.2/50\mu s$			47	V
Forward Voltage	V_F	$I_F = 100mA$			1.3	V
Junction Capacitance	C_J	$V_R = 0V$, $f = 1MHz$, Pin 3 to Pin 1 or 2			120	pF

Notes:

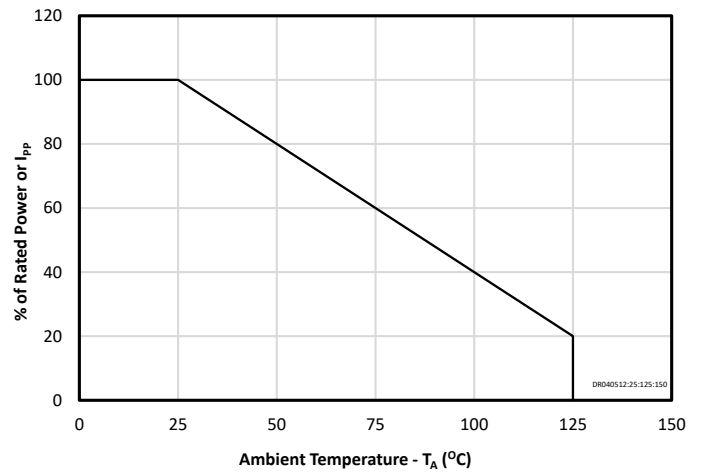
- (1): ESD Gun return path to Ground Reference Plane (GRP)
- (2): Transmission Line Pulse Test (TLP) Settings: $t_p = 100ns$, $t_r = 0.2ns$, I_{TLP} and V_{TLP} averaging window: $t_1 = 70ns$ to $t_2 = 90ns$.
- (3): Dynamic resistance calculated from $I_{TLP} = 4A$ to $I_{TLP} = 16A$.

Typical Characteristics

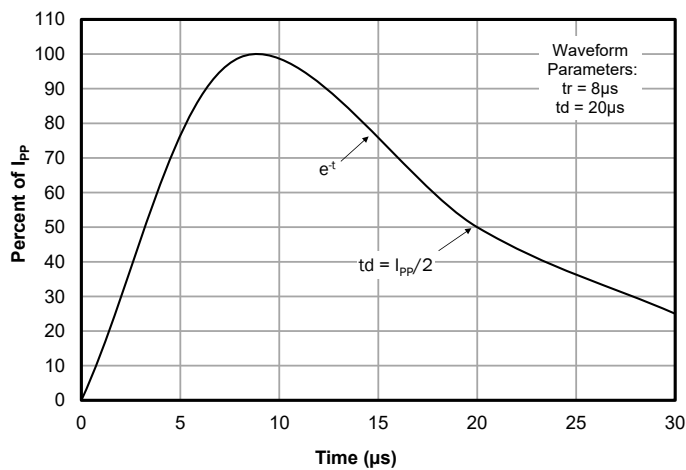
Non-Repetitive Peak Pulse Power vs. Pulse Time



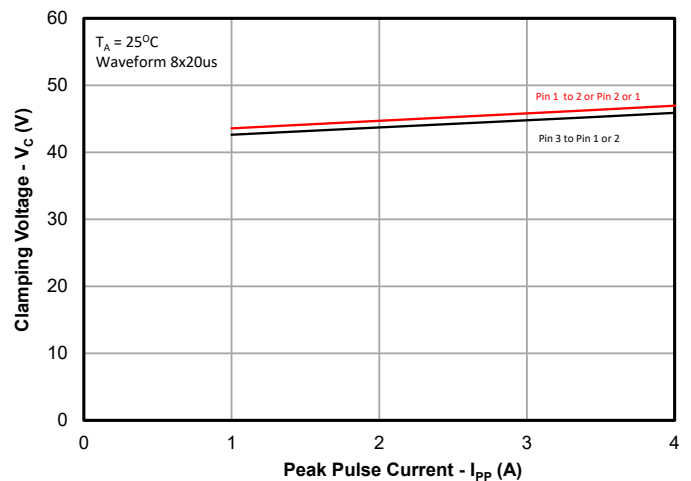
Power Derating Curve



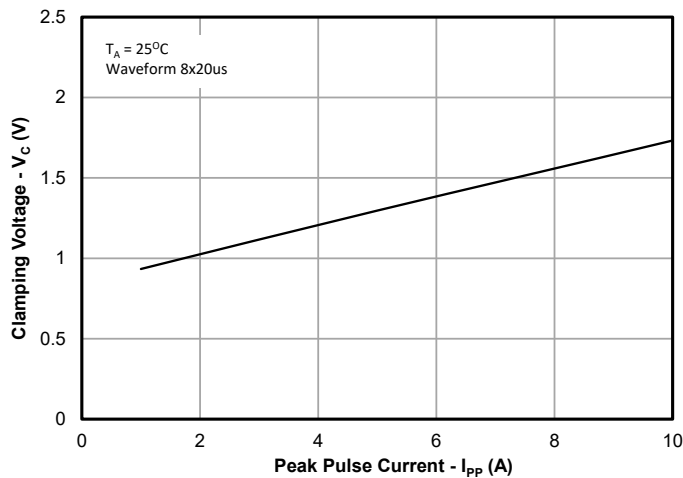
Pulse Waveform



Clamping Voltage vs. Peak Pulse Current (8/20 μ s Pulse)



Forward Voltage vs. Peak Pulse Current (8/20 μ s Pulse)



Application Information

Device Connection for Protection of Two, Three, and Four Wire Proximity Switches

Digital sensors help to bridge the gap between the physical world and the digital world in applications such as computer controlled factory automation. In such environments, transient voltages can easily disrupt or damage sensitive sensor inputs. The SDC36C provides transient voltage protection for the digital sensors to ensure their operation is not disrupted by the physical world.

The SDC36C is designed to meet the high surge capability and low clamping voltage needed to protect the ASIC and control logic used in proximity switches. The SDC36C provides protection for the power and I/O lines. Typical configurations for the protection of two, three, and four wire switches are as follows:

1. Two-Wire Switch: Connect pin 1 to the I/O line and pin 2 to the DC supply (since the device is symmetrical, these connections can be reversed). Pin 3 is not connected.

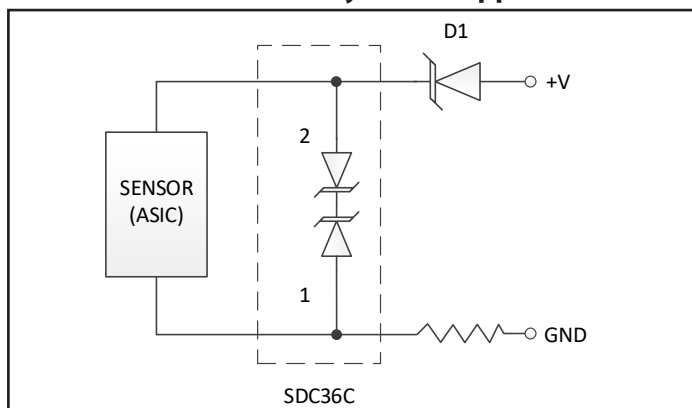
2. Three-Wire Switch: Either pin 1 or pin 2 is connected to the I/O line with the other connected to ground. Pin 3 must be connected to the DC supply.

3. Four-Wire Switch: Two devices are required to protect four wire switches. Pin 3 of each device is connected to the DC supply line. Pins 1 and 2 are connected to the I/O lines and ground as shown.

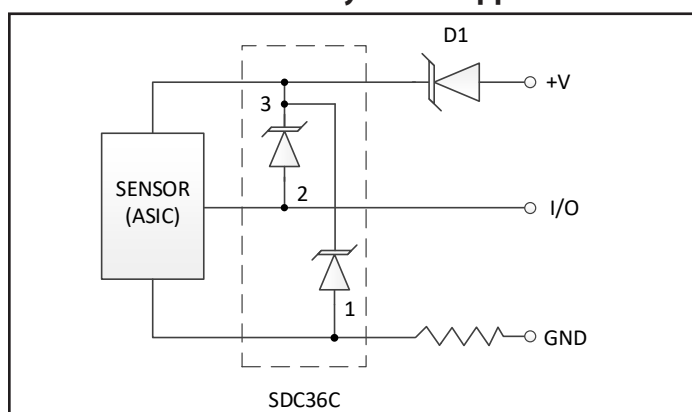
Matte Tin Lead Finish

Matte tin has become the industry standard lead-free replacement for SnPb lead finishes. A matte tin finish is composed of 100% tin solder with large grains. Since the solder volume on the leads is small compared to the solder paste volume that is placed on the land pattern of the PCB, the reflow profile will be determined by the requirements of the solder paste. Therefore, these devices are compatible with both lead-free and SnPb assembly techniques. In addition, unlike other lead-free compositions, matte tin does not have any added alloys that can cause degradation of the solder joint.

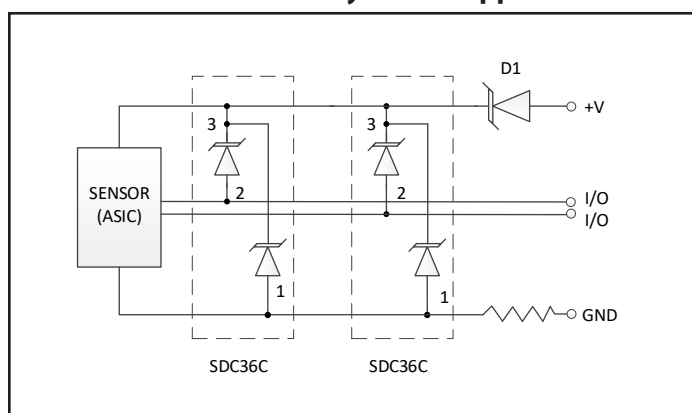
2-Wire DC Proximity Switch Application



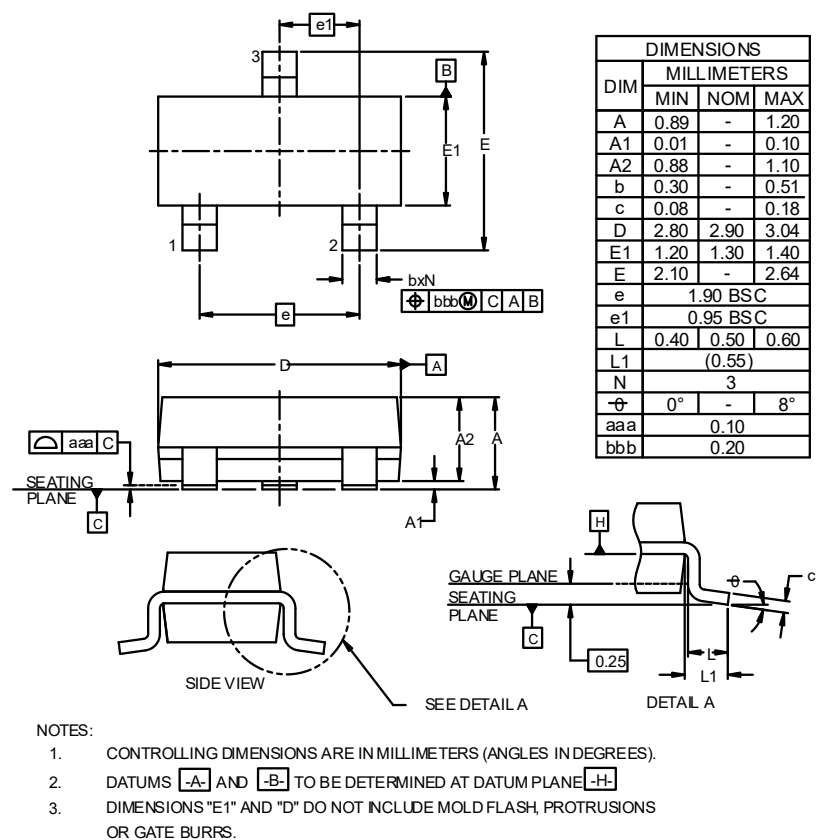
3-Wire DC Proximity Switch Application



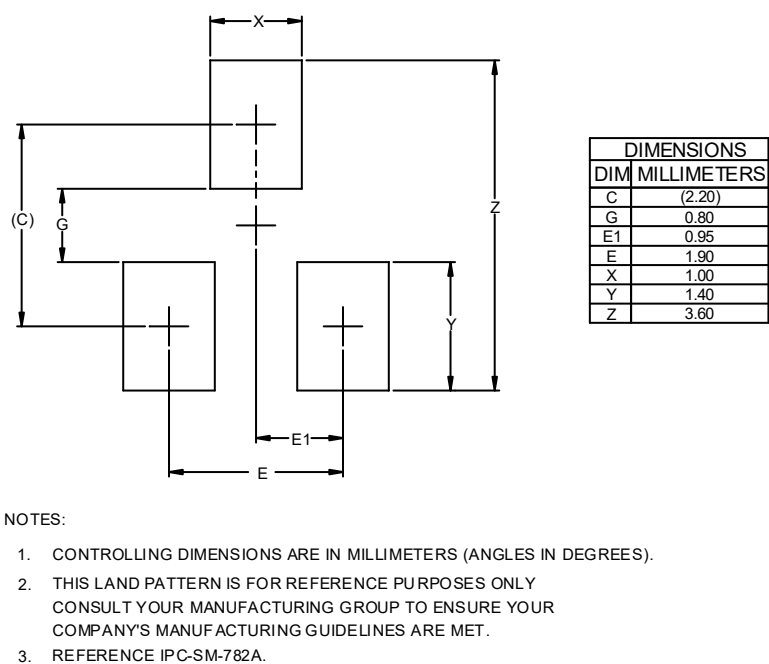
4-Wire DC Proximity Switch Application



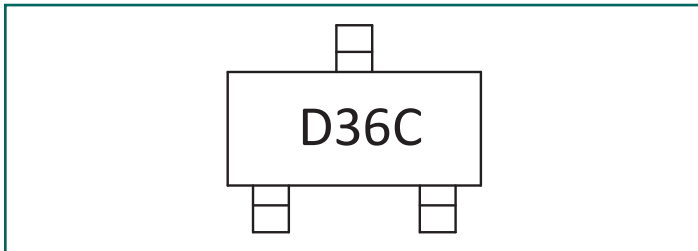
Outline Drawing - SOT23-3L



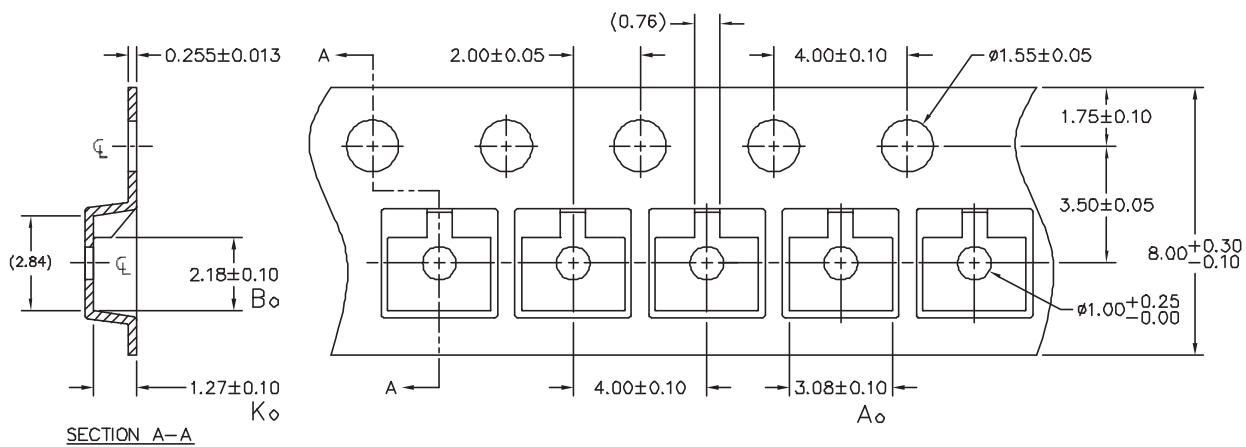
Land Pattern - SOT23-3L



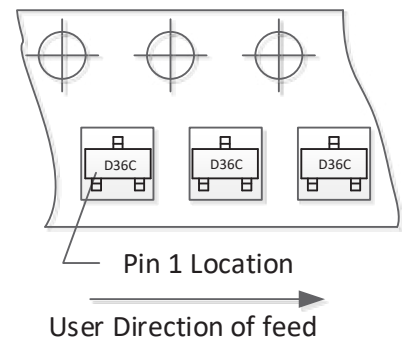
Marking Code



Tape and Reel Specification



NOTES: 1.) ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.



Ordering Information

Part Number	Qty per Reel	Reel Size	Pitch
SDC36C.TCT	3000	7 Inch	4mm



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