PRODUCT CHANGE NOTIFICATION
PCN-000493
Date: 24MAY2019

☒	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

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.

Rev 3

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

by Sublot, by Sequence
Contact: Gurmail Sajjan
(805) 480 2142
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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		**0**	***Actual Start Date:*** 16-Feb-2017
				ECD for Conditional:
0				***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
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Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
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
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	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
22	T/C_wPre_0500	77	Pass on Zero Fails	27-Mar-2017	0	Camarillo
23	T/C_wPre_1000	77	Pass on Zero Fails	05-Apr-2017	0	Camarillo
24	Cross_Section TC 1000 Cyc	15	Pass on Zero Fails	05-Apr-2017	0	Camarillo
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
27	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	23-Mar-2017	0	Camarillo

Rel Job Detail Report

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Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
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	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	
33	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	08-Mar-2017	0	Camarillo	
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

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	15-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	

Rel Job Detail Report

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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
22	T/C_wPre_0500	77	Pass on Zero Fails	27-Mar-2017	0	Camarillo
23	T/C_wPre_1000	77	Pass on Zero Fails	05-Apr-2017	0	Camarillo
24	Cross_Section TC 1000 Cyc	15	Pass on Zero Fails	05-Apr-2017	0	Camarillo
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 Fail	16-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	Rider_Card_Wash/Bake	154	Pass on Zero Fails	16-Mar-2017	0	Camarillo
32	CSAM Analysis	22	Pass on Zero Fails	07-Mar-2017	0	Camarillo
33	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	08-Mar-2017	0	Camarillo
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

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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 tp=1.2/50µs) 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 (8/20µs)
- 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
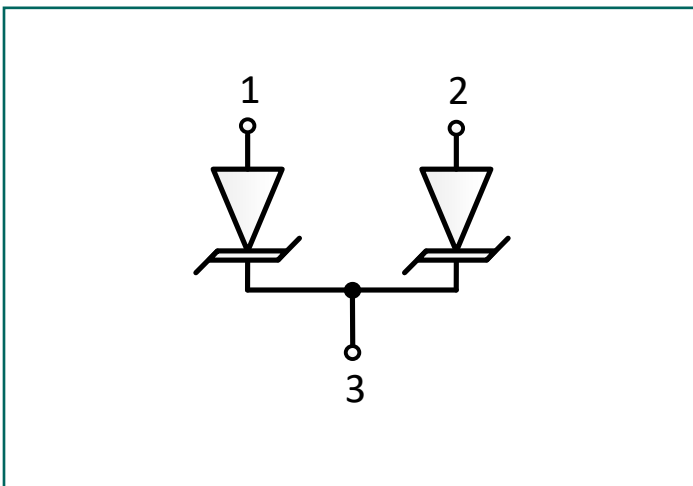
Schematic and Pin Configuration

SOT23 (Top View)

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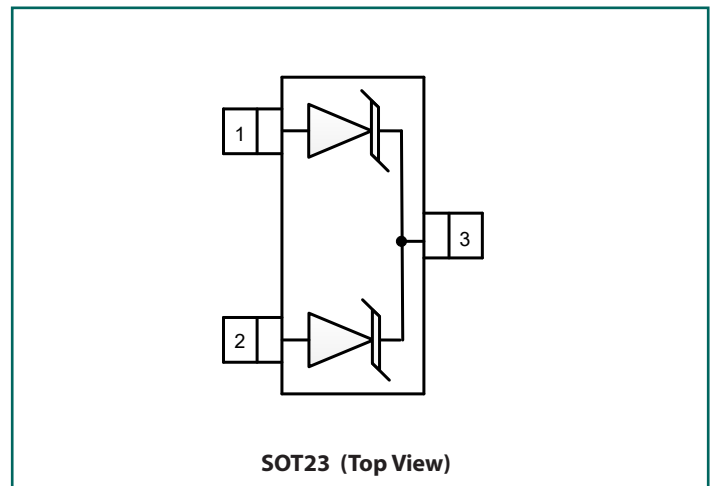
Absolute Maximum Ratings

Rating	Symbol	Value	Units
Peak Pulse Power (tp = 8/20μs)	P_{PK}	350	W
Peak Pulse Power (tp = 1.2/50μs)	P_{PK}	225	W
Peak Pulse Current (tp = 1.2/50μs)	I_{PP}	4	A
Non-Repetitive Peak Forward Current (tp = 100μs)	I_{FSMAX}	4	A
Operating Temperature	T_J	-55to +125	^{O}C
Storage Temperature	T_{STG}	-55 to +150	^{O}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°C			5	μA
			T = 85°C			25	μA
Clamping Voltage	V_C	I_{PP} = 2A, tp = 1.2/50μs				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: tp = 100ns, tr = 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.

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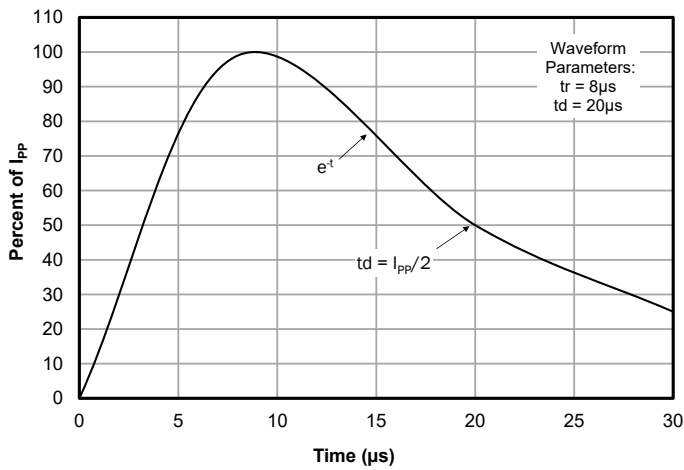# Typical Characteristics

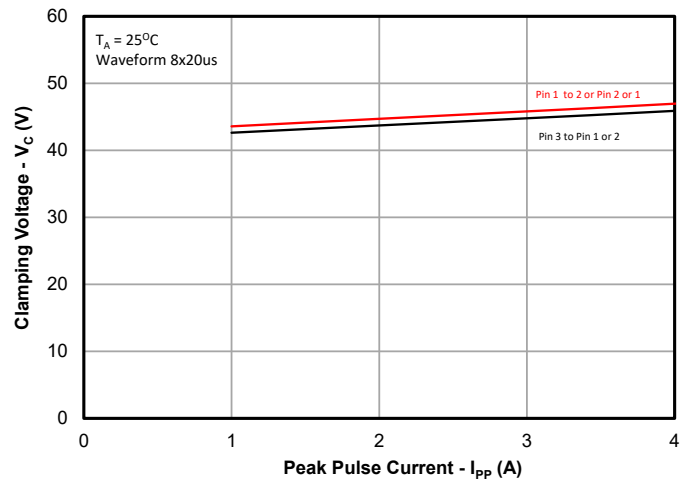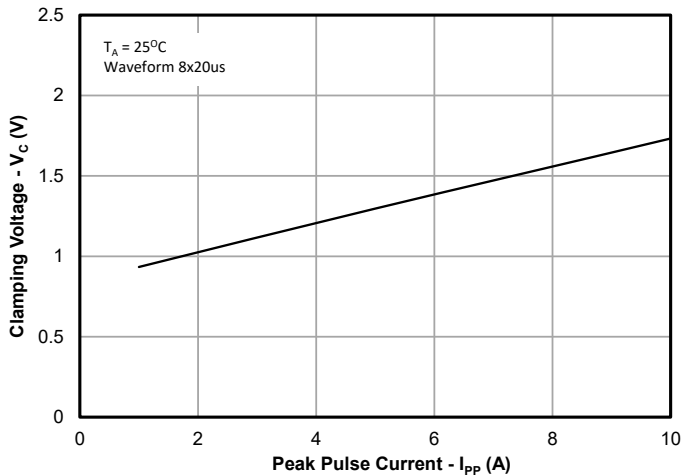### Non-Repetitive Peak Pulse Power vs. Pulse Time
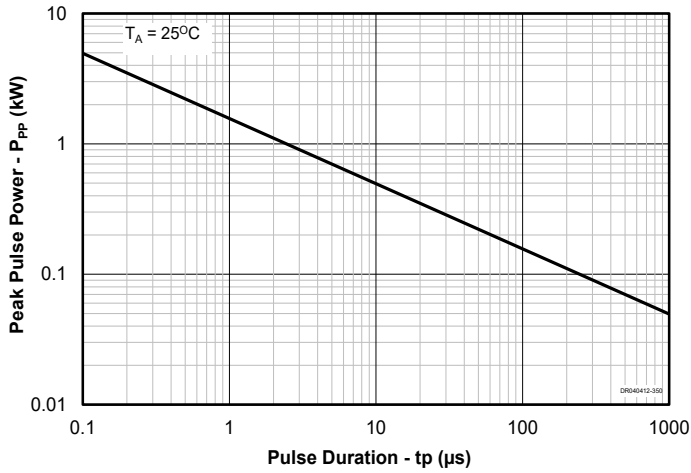
Power Derating Curve
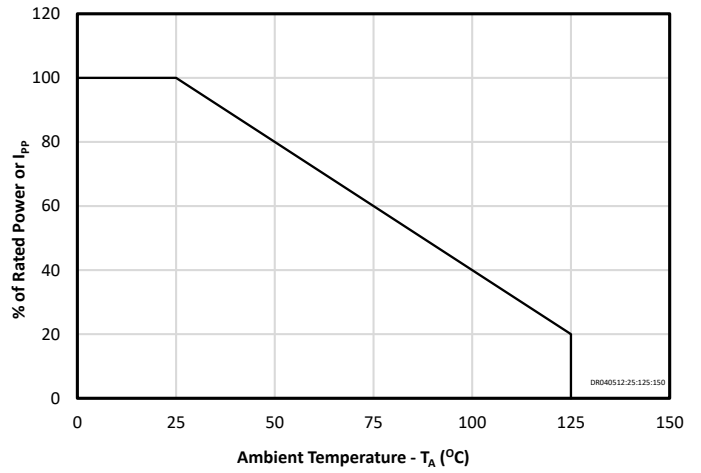
Pulse Waveform

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

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

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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 device 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.
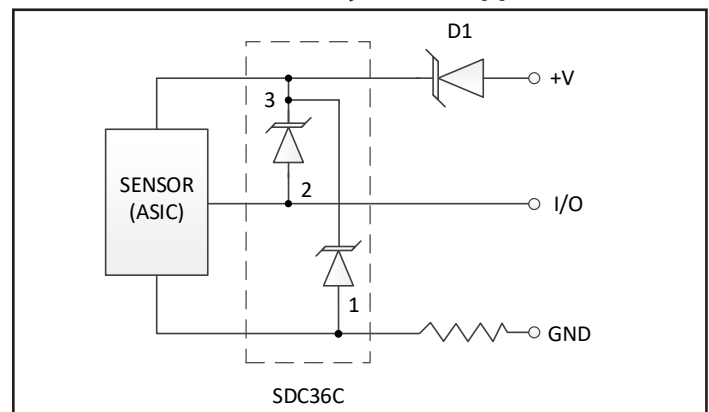
Matte Tin Lead Finish

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.
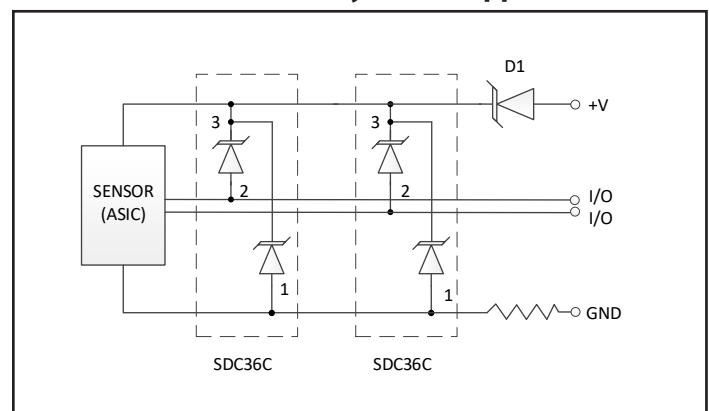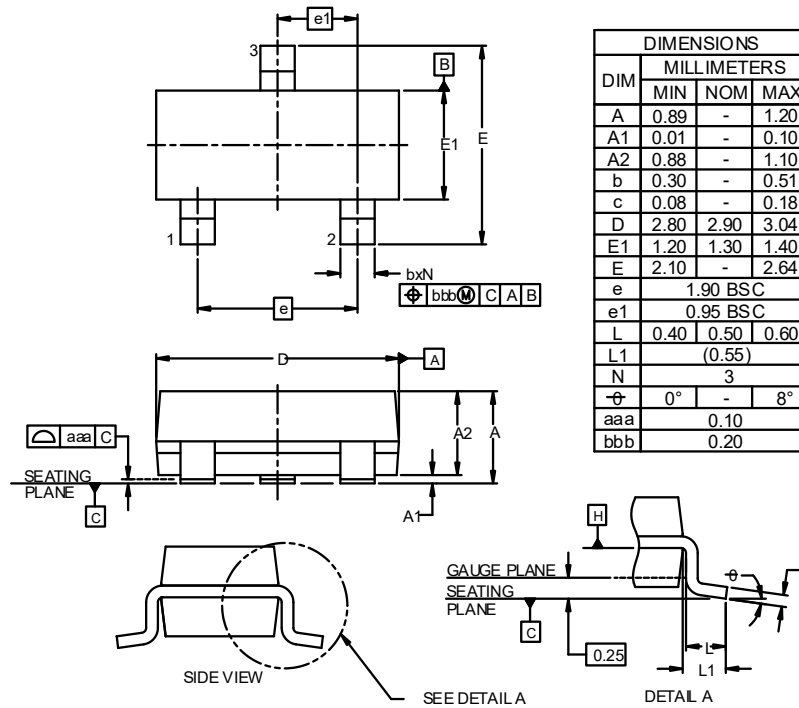
2-Wire DC Proximity Switch Application
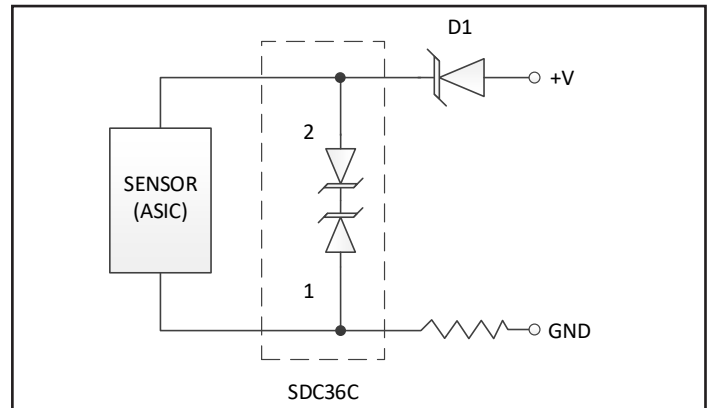
3-Wire DC Proximity Switch Application


4-Wire DC Proximity Switch Application

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Outline Drawing - SOT23-3L

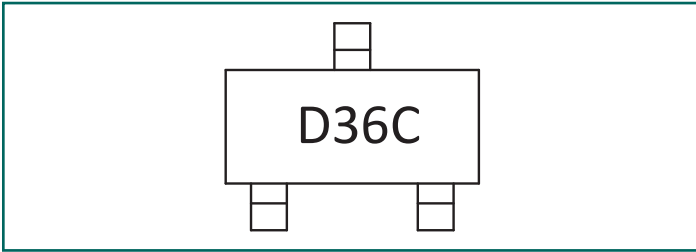| DIMENSIONS			
DIM	MILLIMETERS		
	MIN	NOM	MAX
A	0.89	-	1.20
A1	0.01	-	0.10
A2	0.88	-	1.10
b	0.30	-	0.51
c	0.08	-	0.18
D	2.80	2.90	3.04
E1	1.20	1.30	1.40
E	2.10	-	2.64
e	1.90 BSC		
e1	0.95 BSC		
L	0.40	0.50	0.60
L1	(0.55)		
N	3		
θ	0°	-	8°
aaa	0.10		
bbb	0.20		

NOTES:

1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE -H-
3. DIMENSIONS "E1" AND "D" DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

Land Pattern - SOT23-3L

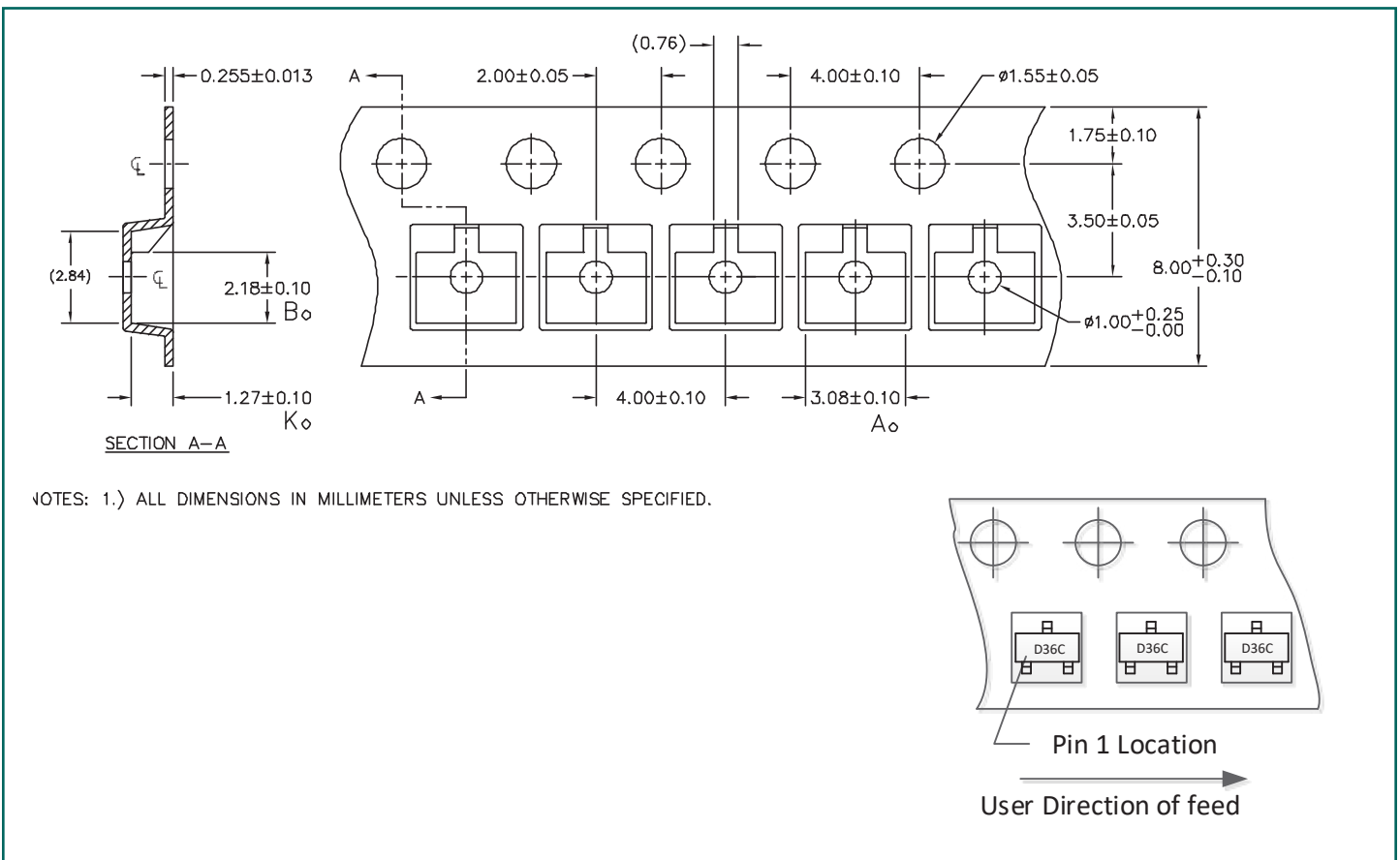| DIMENSIONS	
DIM	MILLIMETERS
C	(2.20)
G	0.80
E1	0.95
E	1.90
X	1.00
Y	1.40
Z	3.60
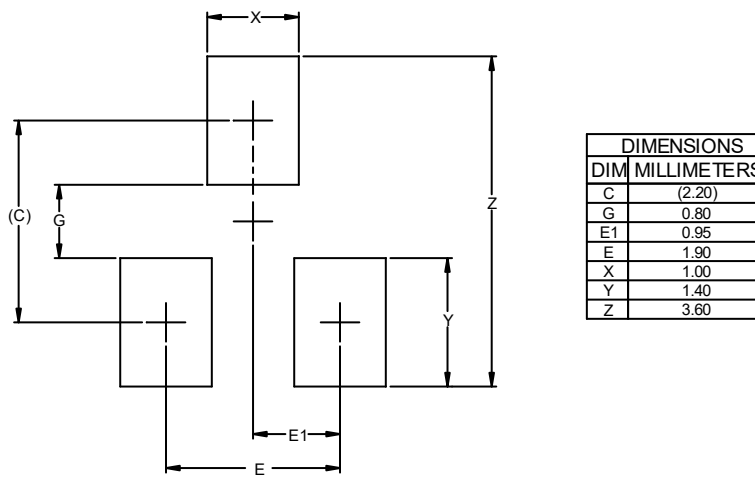
NOTES:

1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.
3. REFERENCE IPC-SM-782A.

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Marking Code

D36C

Tape and Reel Specification

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

SECTION A—A

Pin 1 Location

User Direction of feed

Ordering Information

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

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