



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

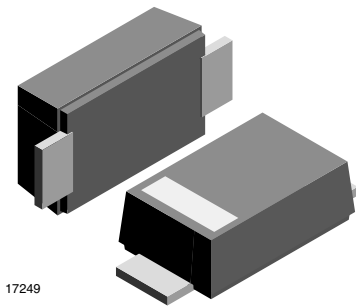
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Schottky Rectifier Surface Mount



17249

MECHANICAL DATA

Case: DO-219AB (SMF)

Polarity: color band denotes cathode end

Weight: approx. 15 mg

Packaging codes / options:

GS18/10K per 13" reel (8 mm tape), 50K/box

GS08/3K per 7" reel (8 mm tape), 30K/box

Int. construction: single

FEATURES

- For surface mounted applications
- Ideal for automated placement
- Low power loss, high efficiency
- Oxide planar chip junction
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Meets JESD 201 class 2 whisker test
- Wave and reflow solderable
- AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

PARTS TABLE			
PART	ORDERING CODE	MARKING	REMARKS
SL02	SL02-GS18 or SL02-GS08	S2	Tape and reel
SL03	SL03-GS18 or SL03-GS08	S3	Tape and reel

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)					
PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		SL02	V_{RRM}	20	V
		SL03	V_{RRM}	30	V
Maximum RMS voltage		SL02	V_{RMS}	14	V
		SL03	V_{RMS}	21	V
Maximum DC blocking voltage		SL02	V_{DC}	20	V
		SL03	V_{DC}	30	V
Maximum average forward rectified current	$T_{tp} = 109\text{ }^{\circ}\text{C}$		$I_{F(AV)}$	1.1	A
Peak forward surge current 8.3 ms single half sine-wave			I_{FSM}	40	A

THERMAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air ⁽¹⁾		R_{thJA}	180	K/W
Maximum operating junction temperature		T_j	125	°C
Storage temperature range		T_{stg}	-55 to +150	°C

Note
⁽¹⁾ Mounted on epoxy substrate with 3 mm x 3 mm Cu pads ($\geq 40\text{ }\mu\text{m}$ thick)



ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage	$I_F = 0.5\text{ A}$ ⁽¹⁾	SL02	V_F		0.360	0.385	V
		SL03	V_F		0.395	0.43	V
Typical instantaneous forward voltage	$I_F = 1.1\text{ A}$	SL02	V_F		0.420		V
		SL03	V_F		0.450		V
Maximum DC reverse current at rated DC blocking voltage	$T_A = 25\text{ }^{\circ}\text{C}$	SL02	I_R			250	μA
	$T_A = 100\text{ }^{\circ}\text{C}$	SL02	I_R			8	mA
	$T_A = 25\text{ }^{\circ}\text{C}$	SL03	I_R			130	μA
	$T_A = 100\text{ }^{\circ}\text{C}$	SL03	I_R			6	mA
Reverse recovery time		SL02	t_{rr}			< 10	ns
		SL03	t_{rr}			< 10	ns

Note

(1) Pulse test: 300 μs pulse width, 1 % duty cycle

TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

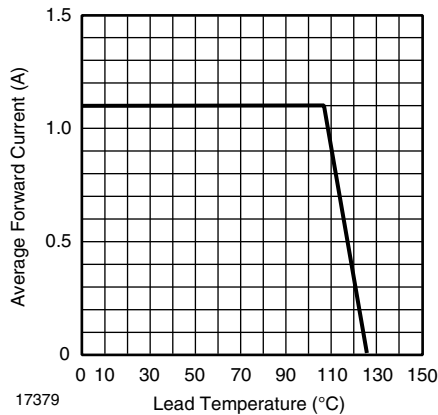


Fig. 1 - Forward Current Derating Curve

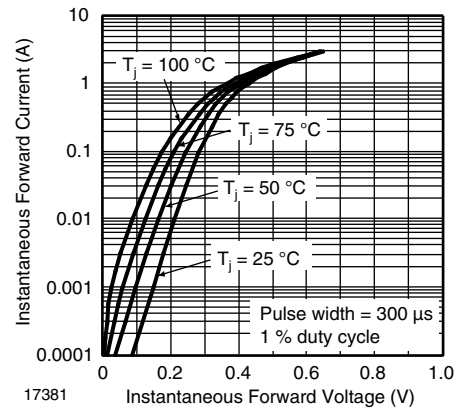


Fig. 3 - Typical Instantaneous Forward Characteristics - SL02

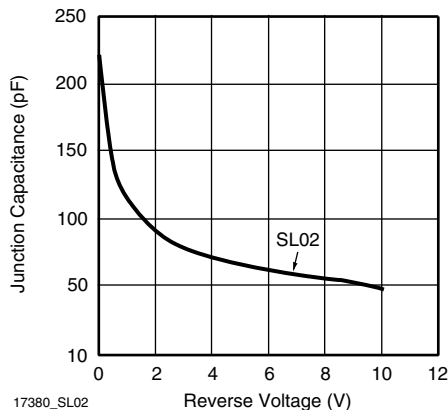


Fig. 2 - Typical Junction Capacitance

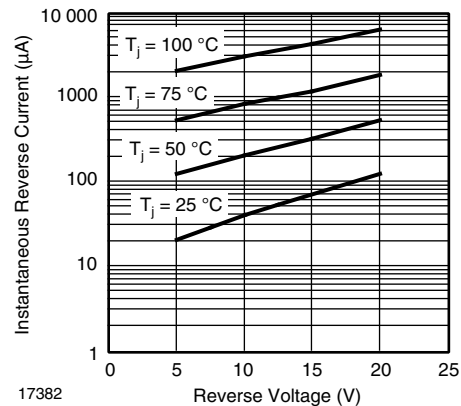


Fig. 4 - Typical Reverse Current Characteristics - SL02

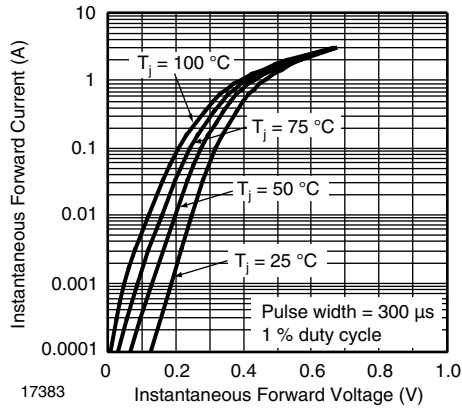


Fig. 5 - Typical Instantaneous Forward Characteristics - SL03

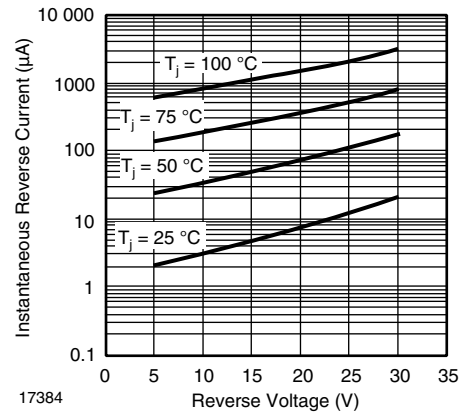
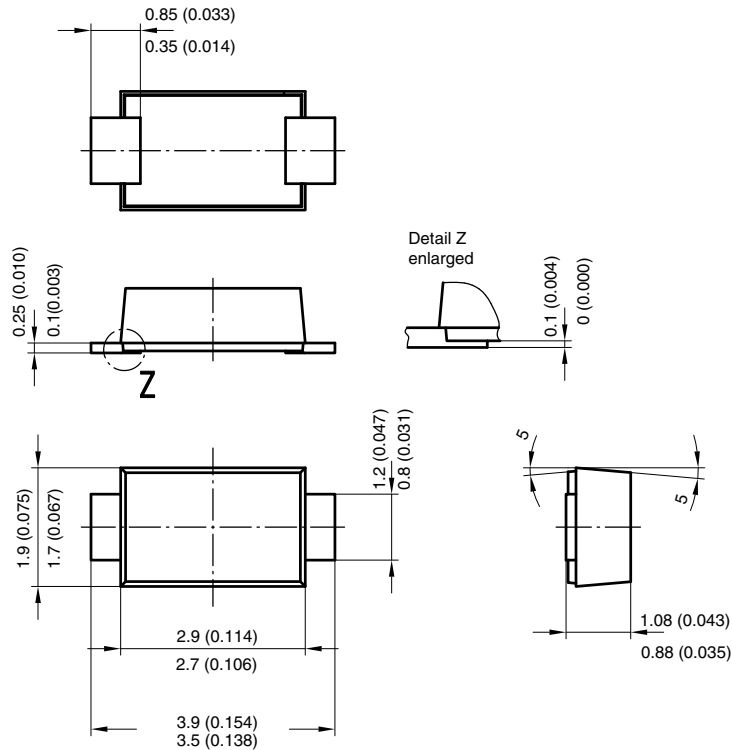
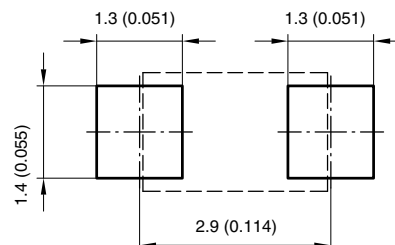


Fig. 6 - Typical Reverse Current Characteristics - SL03

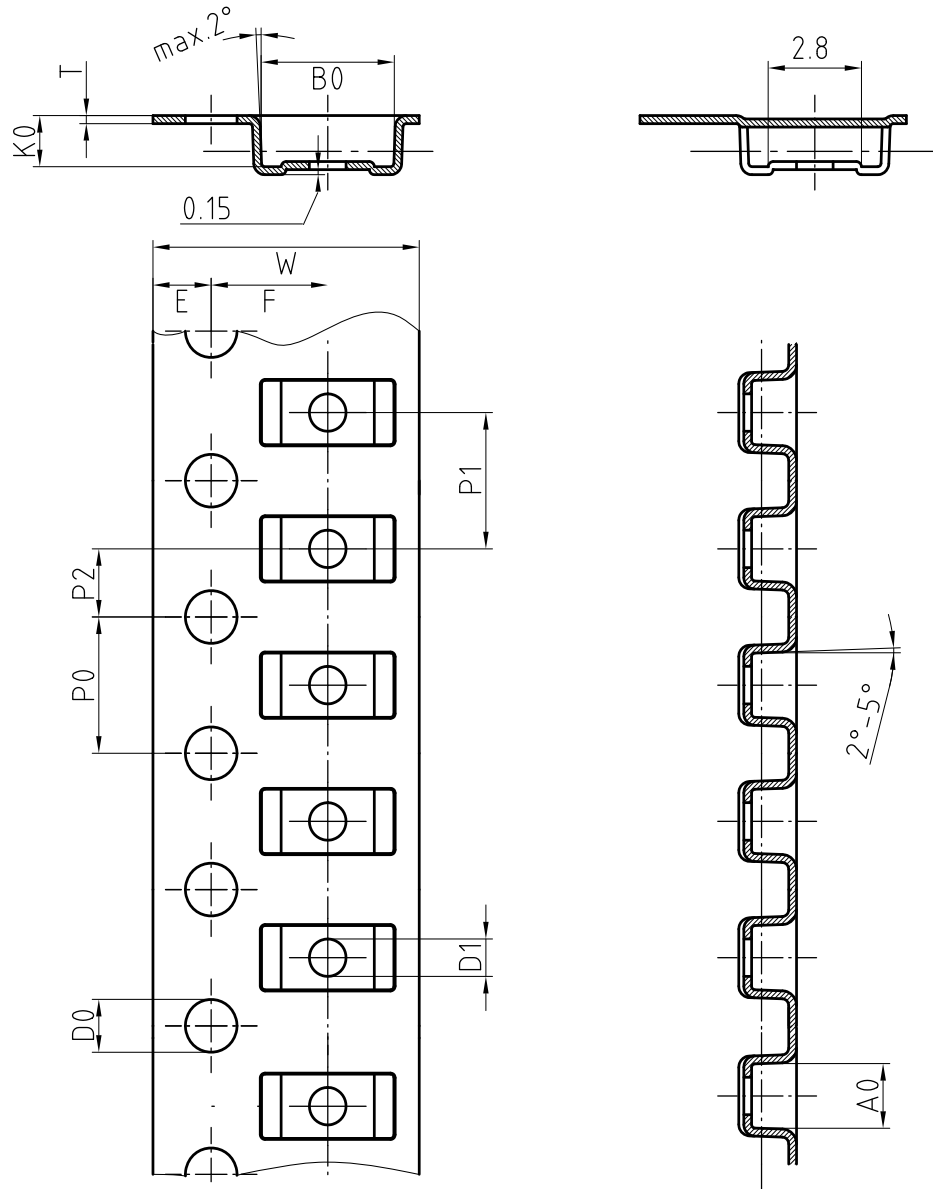
PACKAGE DIMENSIONS in millimeters (inches): **DO-219AB (SMF)**



Foot print recommendation:



Created - Date: 15. February 2005
 Rev. 3 - Date: 13. March 2007
 Document no.:S8-V-3915.01-001 (4)
 17247

BLISTERTAPE DIMENSIONS in millimeters: **DO-219 AB (SMF)**


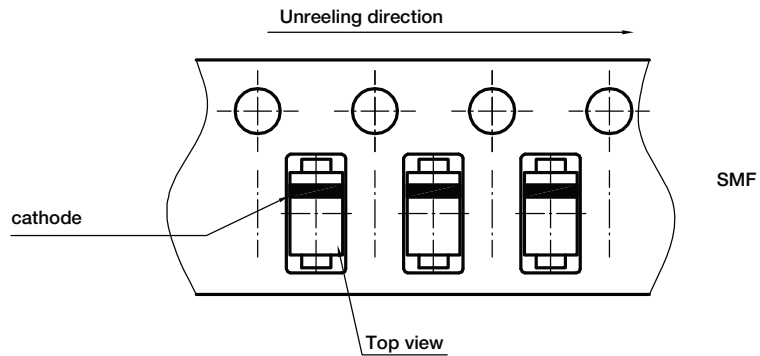
Mat:	A0	B0	K0	W	T	P0	P2	P1	D0	D1	E	F
PS	1.9	4.0	1.5	8.0	0.235	4.0	2.0	4.0	1.5	1	1.75	3.5

Document-No.: S8-V-3717.02-001 (3)

18513



ORIENTATION IN CARRIER TAPE - SMF



Document no.: S8-V-3717.02-003 (4)
Created - Date: 09. Feb. 2010
22670



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