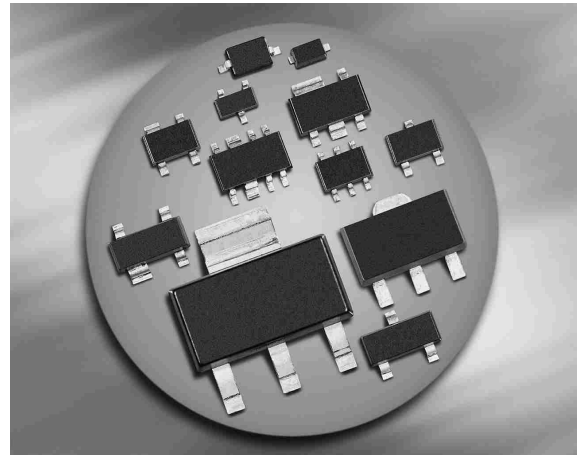
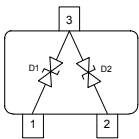


**Dual Channel TVS Diode**

- ESD / transient protection for data and power lines to IEC61000-4-2 (ESD):  $\pm 15$  kV (contact)  
IEC61000-4-4 (EFT): 40 A (5/50 ns)
- Working voltage: -8 / +14 V
- Low capacitance
- Low reverse current


**ESD8V0L2B-03L**


Type	Package	Configuration	Marking
ESD8V0L2B-03L*	TSLP-3-1	2 channel, bi-directional	B3

\* Preliminary data

**Maximum Ratings** at  $T_A = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Value	Unit
ESD contact discharge <sup>1)</sup>	$V_{\text{ESD}}$	15	kV
Peak pulse current ( $t_p = 8 / 20 \mu\text{s}$ ) <sup>2)</sup>	$I_{\text{pp}}$	1	A
Operating temperature range	$T_{\text{op}}$	-55...125	°C
Storage temperature	$T_{\text{stg}}$	-65...150	

**Thermal Resistance**

Parameter	Symbol	Value	Unit
Junction - soldering point <sup>3)</sup>	$R_{\text{thJS}}$	$\leq$ tbd	K/W

<sup>1)</sup> $V_{\text{ESD}}$  according to IEC61000-4-2

<sup>2)</sup> $I_{\text{pp}}$  according to IEC61000-4-5

<sup>3)</sup>For calculation of  $R_{\text{thJA}}$  please refer to Application Note Thermal Resistance

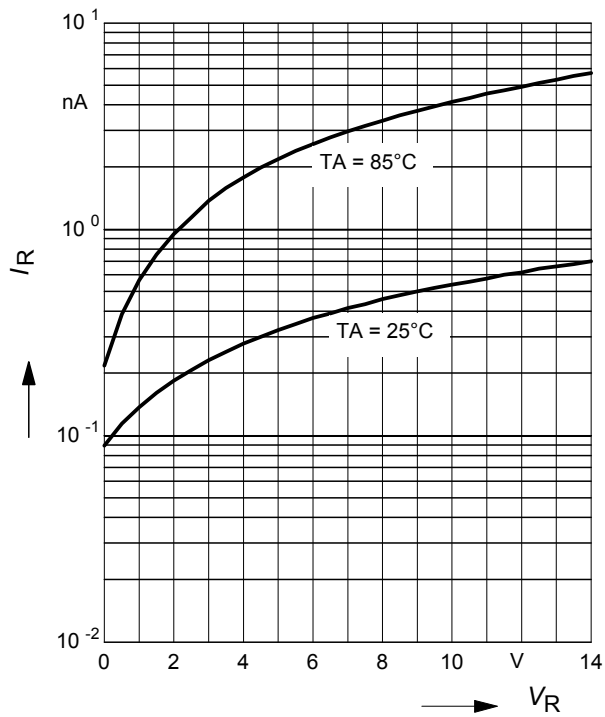
**Electrical Characteristics at  $T_A = 25^\circ\text{C}$ , unless otherwise specified**

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
<b>Characteristics</b>					
Reverse working voltage	$V_{RWM}$	-8	-	14	V
Breakdown voltage	$V_{(BR)}$				
$I_{(BR)} = 1 \text{ mA}$ , from pin 1 or 2 to pin 3		14.5	-	-	
$I_{(BR)} = 1 \text{ mA}$ , from pin 3 to pin 1 or pin 2		8.5	-	-	
Reverse current $V_R = 3 \text{ V}$ , between all pins	$I_R$	-	< 1	100	nA
Clamping voltage	$V_{CL}$				V
$V_{ESD} = +15 \text{ kV}$ (contact) <sup>1)</sup>		-	26	-	
$V_{ESD} = -15 \text{ kV}$ (contact) <sup>1)</sup>		-	20	-	
Diode capacitance $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$ , from pin 1 or pin 2 to pin 3	$C_T$	-	4	7	pF

<sup>1)</sup> $V_{ESD}$  according to IEC61000-4-2

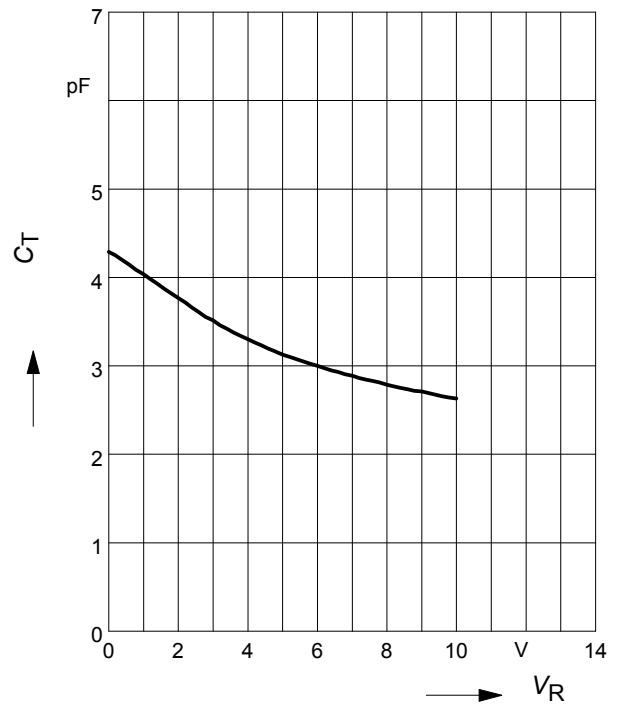
Reverse current  $I_R = f(V_R)$

$T_A =$  Parameter

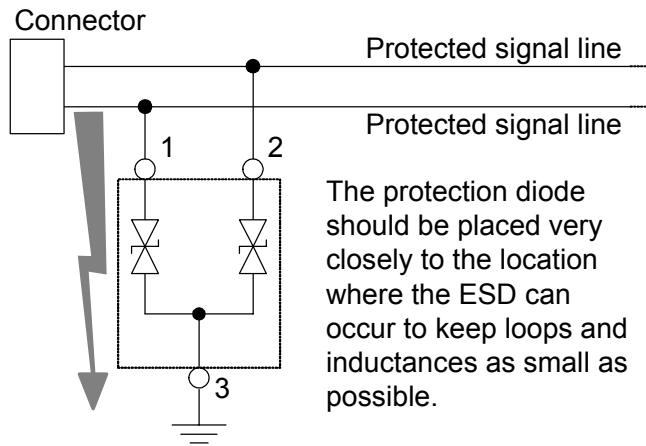


Diode capacitance  $C_T = f(V_R)$

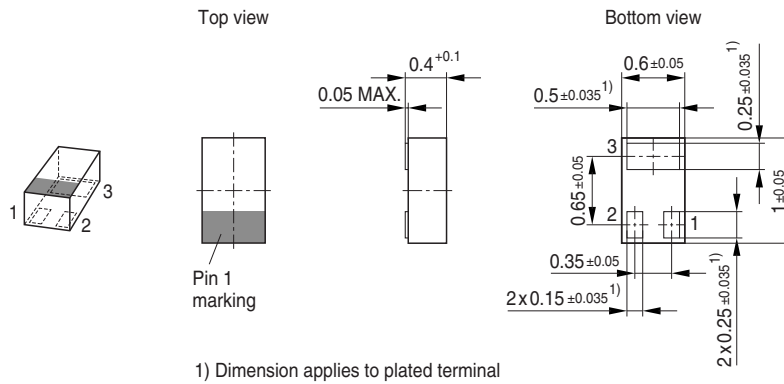
$f = 1\text{MHz}$



**Application example** ESD8V0L2B-03L  
2 channel, bi-directional

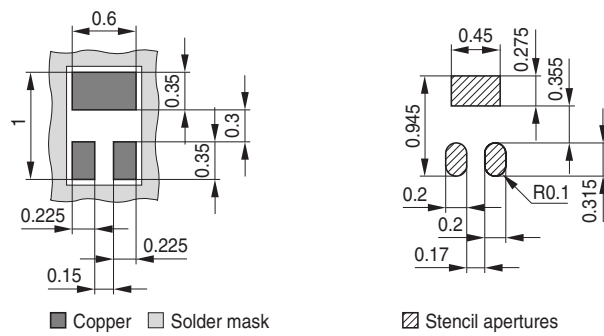


### Package Outline

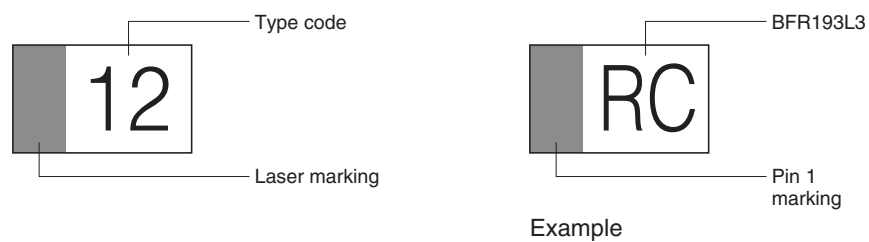


### Foot Print

For board assembly information please refer to Infineon website "Packages"

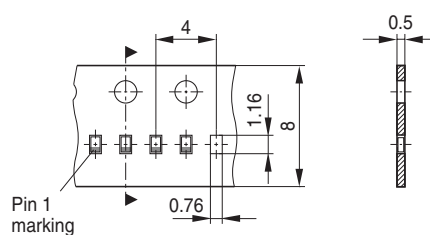


### Marking Layout



### Standard Packing

Reel ø180 mm = 15.000 Pieces/Reel



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