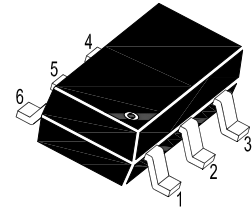
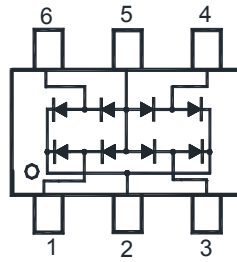


# ESDLC208D

## Low Capacitance TVS Array

### Features

- Low capacitance



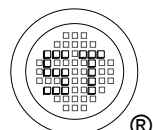
1. I/O1 2. REF2 3. I/O2  
4. I/O3 5. REF1 6. I/O4  
Marking Code: EJ  
SOT-26 Plastic package

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	9	V
Reference voltage gap between $V_{REF2}$ and $V_{REF1}$	$\Delta V_{REF}$	9	V
Maximum operating signal input voltage	$V_{In\ max.}$	$V_{REF2}$	V
Minimum operating signal input voltage	$V_{In\ min.}$	$V_{REF1}$	V
Continuous Forward Current	$I_F$	200	mA
Repetitive Peak Forward Current ( $t_p = 5\ \mu\text{s}$ , $f = 50\ \text{KHz}$ )	$I_{FRM}$	700	mA
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	6 2 1	A
IEC61000-4-2 (ESD)	Air Contact	$V_{ESD}$	15 8 KV
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_{BR} = 100\ \mu\text{A}$	$V_{(BR)R}$	9	-	-	V
Forward Voltage at $I_F = 50\ \text{mA}$	$V_F$	-	-	1.2	V
Reverse Current at $V_R = 5\text{V}$	$I_R$	-	-	1	$\mu\text{A}$
Diode Capacitance at $V_R = 5\ \text{V}$ , $f = 1\ \text{MHz}$ (Input capacitance between Line and GND)	$C_d$	-	7	-	pF



## Electrical Characteristics Curves

Fig 1. Peak Forward Surge Current vs.Time

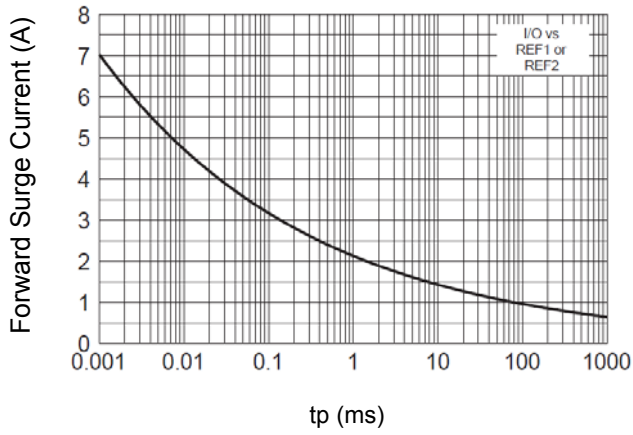


Fig 2. Peak Pulse Current vs. Clamping Voltage

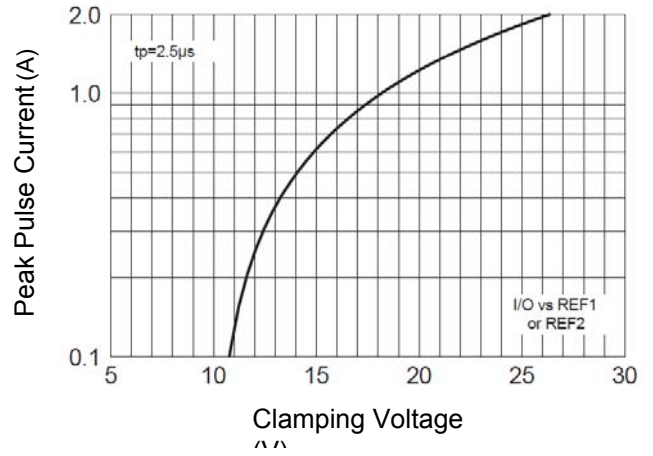
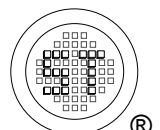
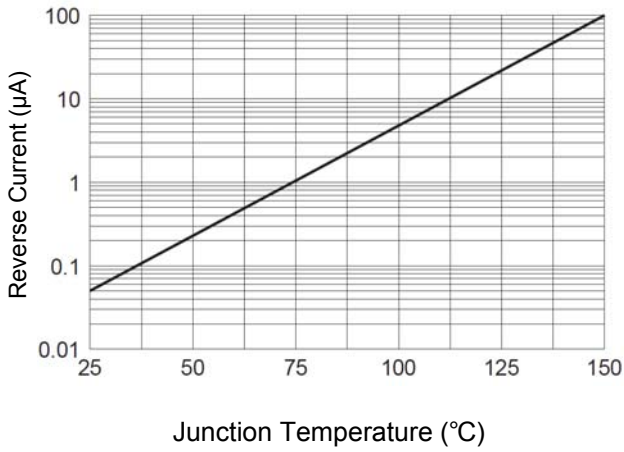


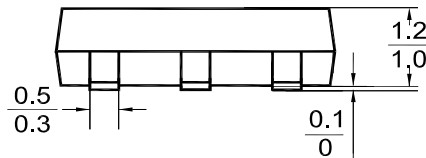
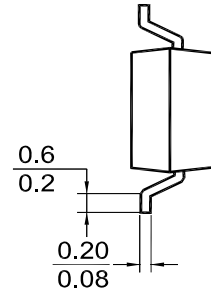
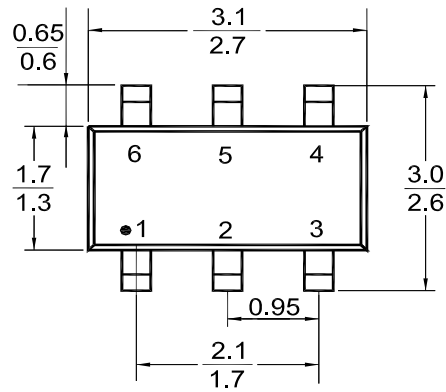
Fig 3. Reverse Current vs. Junction Temperature



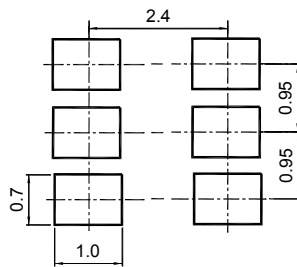
# ESDLC208D

## Package Outline Dimensions (Units: mm)

SOT-26



## Recommended Soldering Footprint



## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-26	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

## Marking information

"EJ" = Part No.  
 "YM" = Date Code Marking  
 "Y" = Year  
 "M" = Month  
 Font type: Arial

