Characteristics DDSL01

#### 1 Characteristics

Table 1. Absolute maximum ratings  $(T_{amb} = 25^{\circ}C)$ 

Symbol	Parameter	Value	Unit
I <sub>PP</sub>	Peak pulse current (8/20 µs)	30	Α
T <sub>j</sub>	Operating junction temperature range	-40 to 125	°C
T <sub>stg</sub>	Storage temperature range	-55 to +150	°C
T <sub>L</sub>	Maximum lead temperature for soldering during 10 s	260	°C

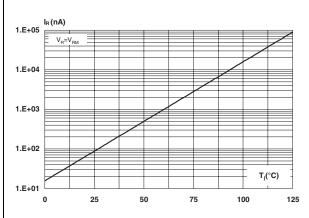
Table 2. Electrical characteristics ( $T_{amb} = 25 \, ^{\circ}C$ )

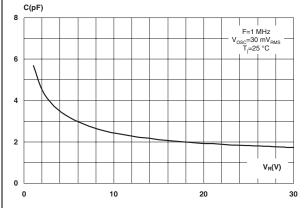
	I <sub>RM</sub> @ V <sub>RM</sub>		V <sub>F</sub> @	C <sup>(1)</sup>	
Order code	max.		max.		max.
	μΑ	V	V	mA	pF
DDSL01-030SL	0.5	30	0.6	50	7

<sup>1.</sup> Test conditions:  $V_R = 2 V \text{ bias}$ ,  $V_{RMS} = 30 \text{ mV}$ , F = 1 MHz

Figure 2. Leakage current versus junction temperature (typical values)

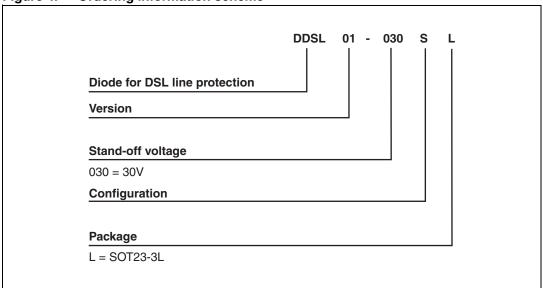
Figure 3. Junction capacitance versus reverse applied voltage (typical values)





## 2 Ordering information scheme

Figure 4. Ordering information scheme





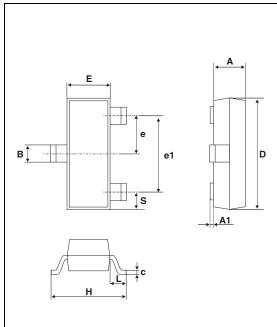
Package information DDSL01

### 3 Package information

- Epoxy meets UL94, V0
- Lead-free packages

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK<sup>®</sup> packages, depending on their level of environmental compliance. ECOPACK<sup>®</sup> specifications, grade definitions and product status are available at: <a href="www.st.com">www.st.com</a>. ECOPACK<sup>®</sup> is an ST trademark.

Table 3. SOT23-3L dimensions



	Dimensions					
Ref.	Millin	neters	Inches			
	Min. Max.		Min.	Max.		
Α	0.89	1.4	0.035	0.055		
A1	0	0.1	0	0.004		
В	0.3	0.51	0.012	0.02		
С	0.085	0.18	0.003	0.007		
D	2.75	3.04	0.108	0.12		
е	0.85	1.05	0.033	0.041		
e1	1.7	2.1	0.067	0.083		
Е	1.2	1.6	0.047	0.063		
Н	2.1	2.75	0.083	0.108		
L	0.6 typ.		0.024 typ.			
S	0.35	0.65	0.014	0.026		

Figure 5. Footprint (dimensions in mm)

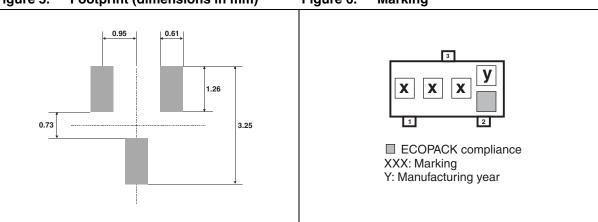


Figure 6. Marking

# 4 Ordering information

Table 4. Ordering information

Order code	Marking	Package	Weight	Base qty	Delivery mode
DDSL01-030SL	DD1	SOT23-3L	0.01 g	3000	Tape and reel

## 5 Revision history

Table 5. Document revision history

Date	Revision	Changes
15-Apr-2010	1	First issue.

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