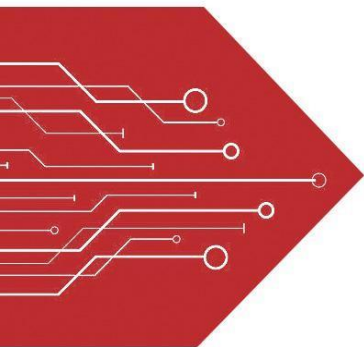


MSKSEMI

SEMICONDUCTOR



ESD



TVS



TSS



MOV



GDT



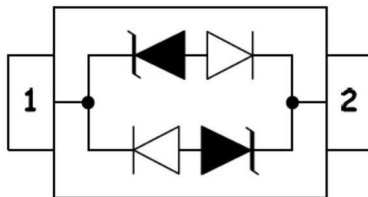
PLED

Product data sheet



SOD-323

PIN CONFIGURATION



FEATURES

- ✧ Transient protection for high-speed datalines
 - IEC 61000-4-2 (ESD) $\pm 30\text{kV}$ (Contact)
 - $\pm 30\text{kV}$ (Air)
 - IEC 61000-4-4 (EFT) 40A (5/50 ns)
- ✧ Protects one I/O line (bidirectional)
- ✧ Working voltages : 24V
- ✧ Low clamping voltage
- ✧ Low leakage current
- ✧ Response time is $< 1\text{ ns}$

MACHANICAL DATA

- ✧ SOD-323 package
- ✧ Flammability Rating: UL 94V-0
- ✧ Packaging: Tape and Reel
- ✧ High temperature soldering guaranteed:
 - 260°C/10s
- ✧ Reel size: 7 inch
- ✧ MSL1

APPLICATIONS

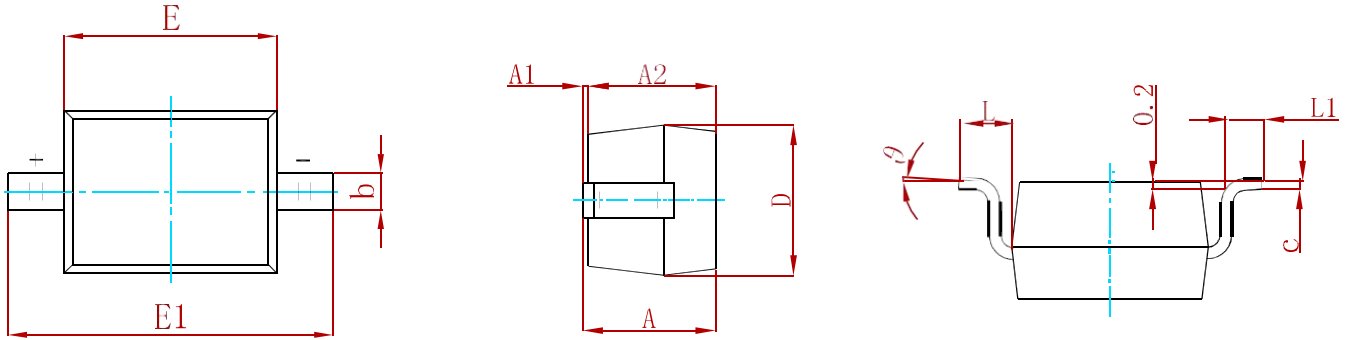
- ✧ Cell Phone Handsets and Accessories
- ✧ Microprocessor based equipment
- ✧ Personal Digital Assistants (PDA's)
- ✧ Notebooks, Desktops, and Servers
- ✧ Portable Instrumentation
- ✧ Peripherals
- ✧ USB Interface

Bi-directional Ultra Low Capacitance TVS Array

ABSOLUTE MAXIMUM RATING			
Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Contact)	±30	kV
	ESD per IEC 61000-4-2 (Air)	±30	
P_{PP}	Peak Pulse Power (8/20μs)	350	W
T_{OPT}	Operating Temperature	-55/+150	°C
T_{STG}	Storage Temperature	-55/+150	°C
T_L	Lead Soldering Temperature	260	°C

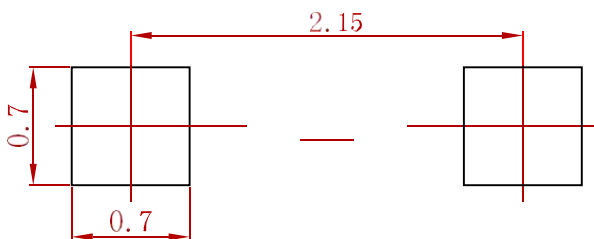
ELECTRICAL CHARACTERISTICS (Tamb=25°C)										
P/N	MARKING	V_{RWM}	$V_B@1mA$	$V_C@1A$	$V_C@I_{pp}$		$V_C@I_{pp}$		I_R	C_T
		(V) Max	(V) Min	(V) Max	(V) Max	(A) Ipp	(V) Max	(A) Ipp	(μA) Max	(pF) Typ.
PDYL240B-MS	HC	24.0	26.7	43.0	45.0	3	56.0	6	1	0.8

PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05mm.
3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
PDYL240B-MS	SOD-323	3000

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