

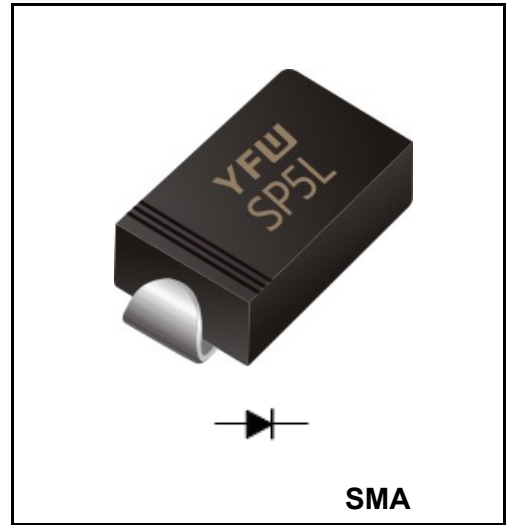
**High voltage surface mount diodes**

**Reverse Voltage – 5kV**

**Forward Current –270mA**

**FEATURES**

- ◆High speed switching
- ◆High Current
- ◆High surge resitivity for CRT discharge
- ◆High reliability design
- ◆High Voltage



**Maximum Ratings and Characteristics**

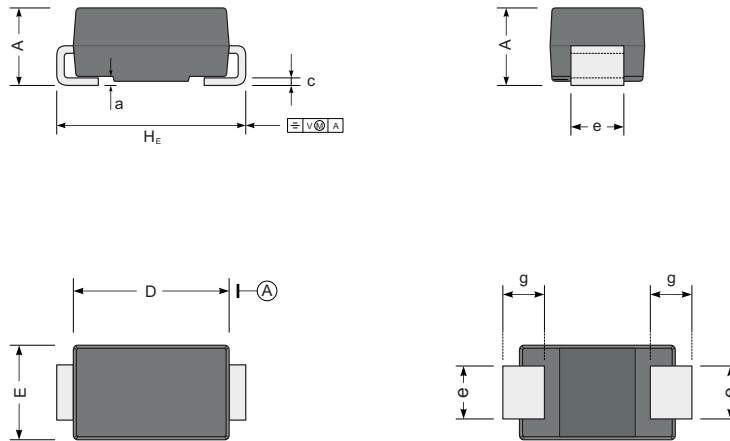
- ◆Absolute Maximum Ratings
- ◆Terminals: Pure tin plated leads, solderable per J-STD-002and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.
- ◆Polarity: Color band denotes cathode end

**Maximum rating (Ta=25°C unless otherwise noted)**

Parameter		Symbol	SP5L	Unit
Repetitive peak reverse voltage		$V_{RRM}$	5	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	270	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	$I_{FSM}$	10	A
Peak forward voltage	$I_{FM}=10mA$	$V_{FM}$	14	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	$I_{RRM}$	0.1	μA
	Ta=100°C		10	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	$T_{rr}$	0.075	uS
Operating ambient temperature		$T_a$	-55 ~ +150	°C
Storage Temperature Range		$T_{stg}$	-55 ~ +150	°C
Virtual junction temperature		$T_{(vj)}$	150	°C
Junction Capacitance	at 25°C, $V_R=0V, f=1MHz$	$C_j$	5.0	pF

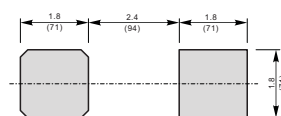
**Package outline dimensions**

Plastic surface mounted package; 2 leads



UNIT		A	D	E	H <sub>E</sub>	c	e	g	a
mm	max	2.42	4.5	2.80	5.2	0.31	1.6	1.5	0.3
	min	1.98	4.0	2.54	4.7	0.15	1.3	0.9	
mil	max	96	181	110	205	12	63	59	12
	min	78	157	100	185	6	51	35	

**The recommended mounting pad size**



Unit:  $\frac{\text{mm}}{\text{(mil)}}$

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SMA	BOX	5000	EIA-481-1

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