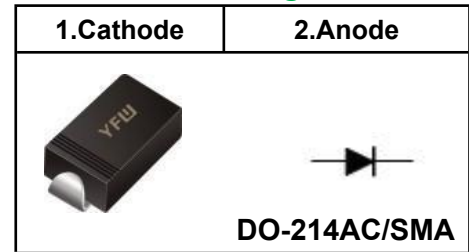


High voltage surface mount diodes
Reverse Voltage – 5kV
Forward Current –270mA
FEATURES

- ◆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

Pinning

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	nS
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

Marking Diagram



Ordering information

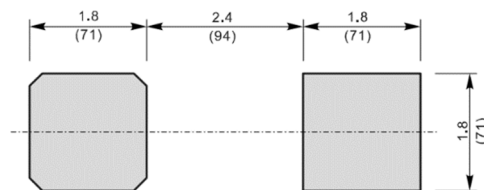
Package	Packing Description	Packing Quantity
DO-214AC SMA	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

DO-214AC SMA

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	1.9	2.45	75	96
D	4.0	4.5	157	181
E	2.5	2.8	100	110
H _E	4.7	5.2	185	205
c	0.15	0.31	6	12
e	1.3	1.8	51	71
g	0.9	1.5	35	59
b	0.05	0.2	2	7.9
a	0.3		12	

The recommended mounting pad size



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

Disclaimer

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