

Fast Recovery High Voltage Diodes
Reverse Voltage – 8kV
Forward Current –10mA
FEATURES

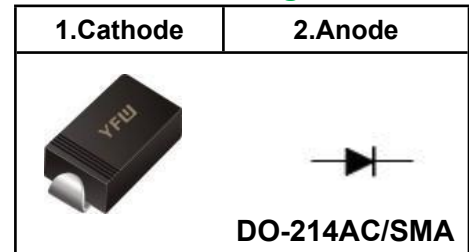
- ◆High speed switching
- ◆High Current
- ◆High surge resisitivity for CRT discharge
- ◆High reliability design
- ◆High Voltage

Applications

- ◆X light Power supply
- ◆Laser
- ◆Voltage dubler circuit
- ◆Microwave emission power

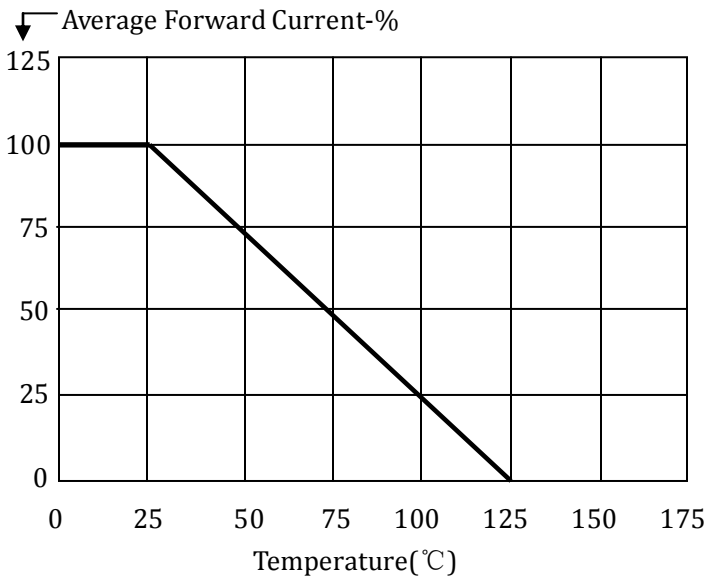
Maximum Ratings and Characteristics

- ◆Absolute Maximum Ratings
- ◆Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.
- ◆Polarity: Color band denotes cathode end

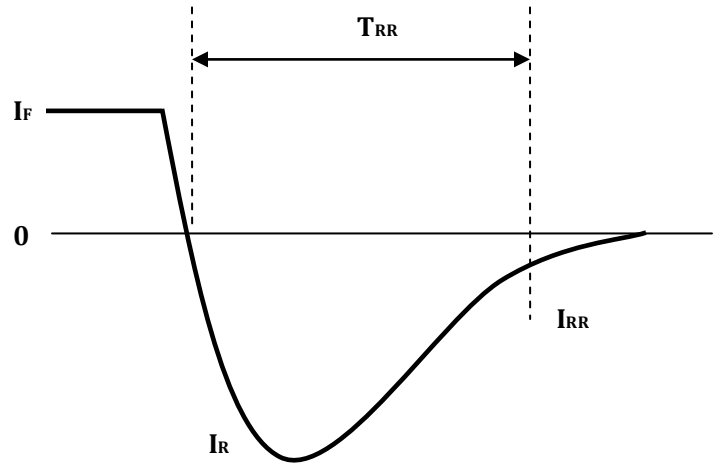
Pinning

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

Parameter		Symbol	YFW08	Unit
Repetitive peak reverse voltage		V_{RRM}	8	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	10	mA
Surge(Non-repetitive) forward current	60Hz half-sine wave, 1cycle, Ta=25°C	I_{FSM}	0.5	A
Peak forward voltage	$I_{FM}=10mA$	V_{FM}	25	V
Peak reverse current	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.1	μA
		$T_a=100^{\circ}C$	10	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	T_{rr}	0.08	μs
Operating ambient temperature		T_a	-40 ~ +150	°C
Storage temperature		T_{stg}	-40 ~ +150	°C
Virtual junction temperature		$T_{(vj)}$	150	°C

Forward Current Derating Curve

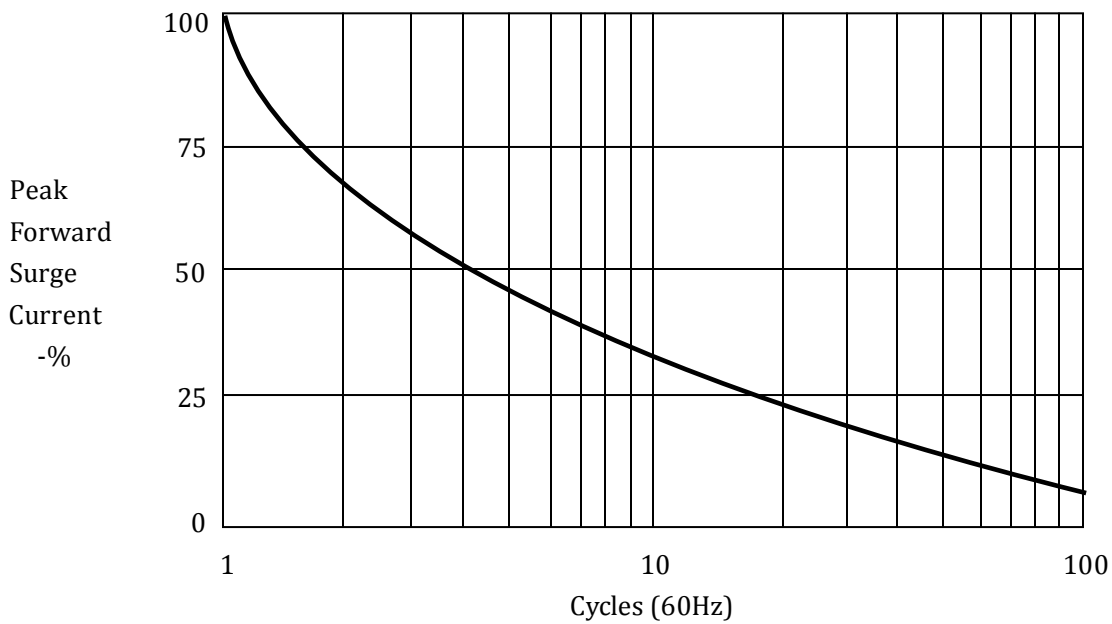


Reverse Recovery Measurement Waveform



Typical data capture points: $I_F = 0.5I_R$, $I_R, I_{RR} = 0.25I_R$
 I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

Non-Repetitive Surge Current



Marking Diagram



Ordering information

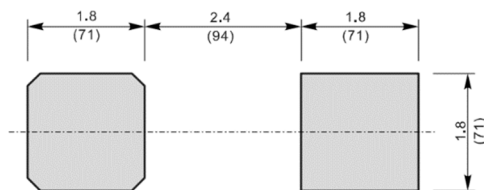
Package	Packing Description	Packing Quantity
DO-214AC SMA	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

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

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