

High voltage surface mount diodes

Reverse Voltage – 8kV

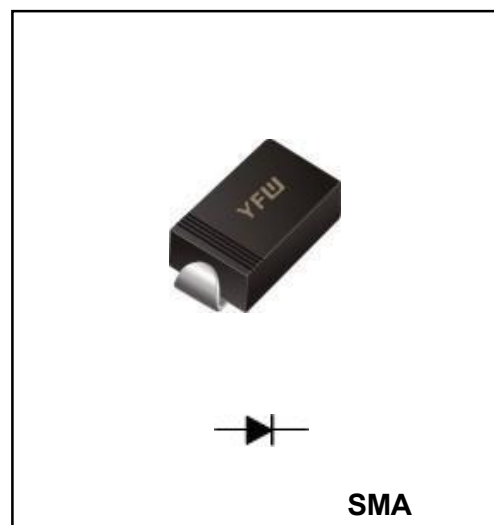
Forward Current –5mA

FEATURES

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

Maximum Ratings and Characteristics

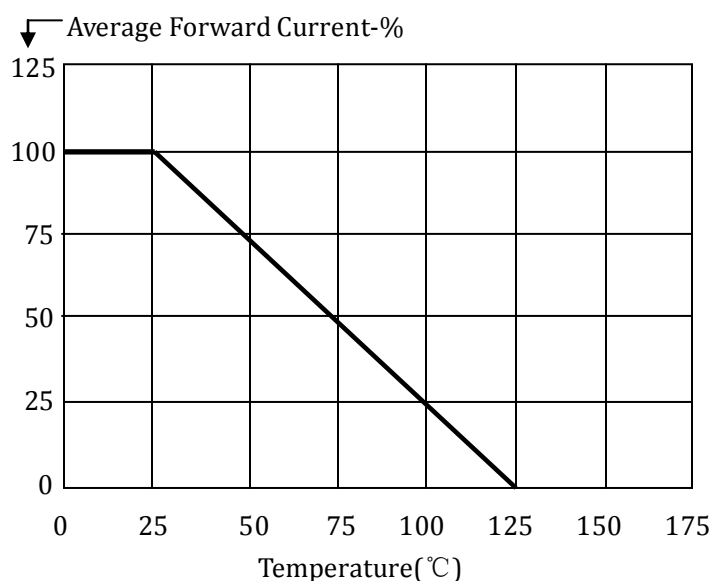
- ♦ Absolute Maximum Ratings
- ♦ Terminals: Pure tin plated leads, solderable per J-STD-002and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.
- ♦ Polarity: Color band denotes cathode end



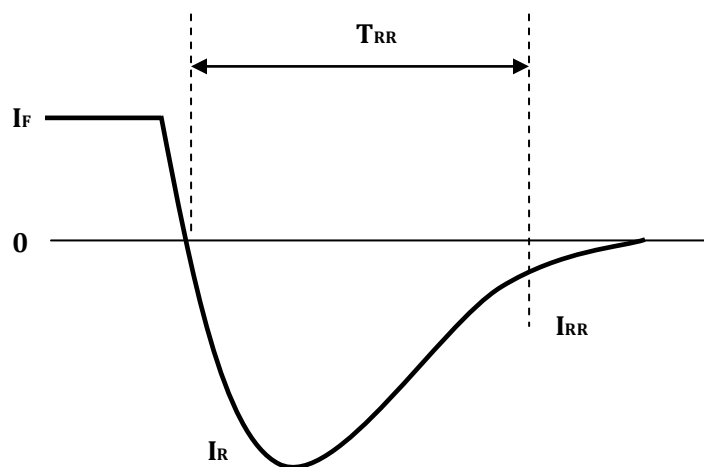
Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	YFW08	Unit
Repetitive peak reverse voltage		V_{RRM}	8	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	5	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}	25	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	I_{RRM}	0.1 10	μA
	Ta=100°C			
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	T_{rr}	0.08	uS
Operating ambient temperature		T_a	-40 ~ +150	°C
Storage Temperature Range		T_{stg}	-40 ~ +150	°C
Virtual junction temperature		$T_{(vj)}$	150	°C

Forward Current Derating Curve

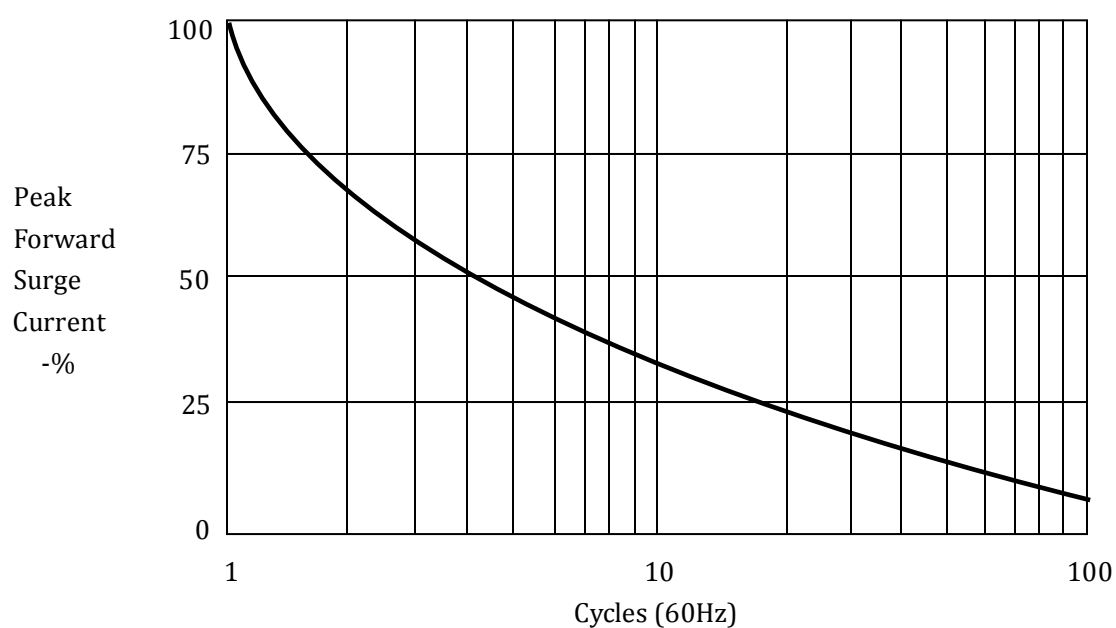


Reverse Recovery Measurement Waveform



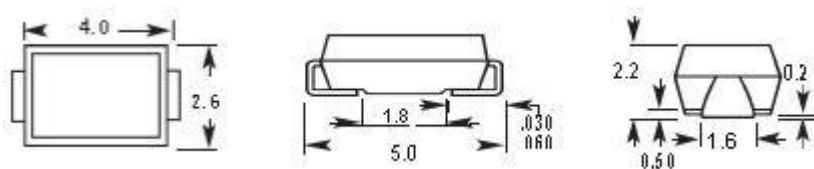
Typical data capture points: $I_F = 0.5I_R$, $I_R, I_{RR} = 0.25I_R$
 I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

Non-Repetitive Surge Current



Package outline dimensions

Plastic surface mounted package; 2 leads



Outline Drawings : mm

Summary of Packing Options

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