

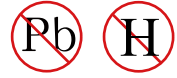


YEA SHIN TECHNOLOGY CO., LTD

UF2A THRU UF2M

Ultra Fast Recovery Rectifier

VOLTAGE- 50 to 1000 Volts CURRENT - 2.0 Amperes



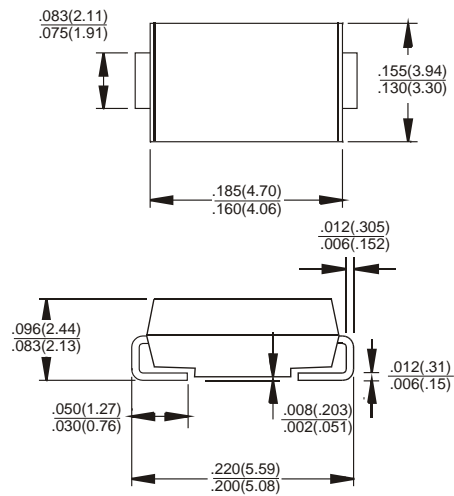
FEATURES

- Glass passivated chip
- Ultra fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case : Molded plastic
- Polarity : Indicated by cathode band

SMB/DO-214AA Unit:inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	UF2M	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @TL =75 °C	I(AV)	2.0							A	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	50							A	
Maximum forward Voltage at 2.0A DC	VF	1.0		1.3		1.5		1.7		V
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =100°C	IR	5 100							uA	
Maximum Reverse Recovery Time (Note 1)	TRR	50				75				ns
Typical Junction Capacitance (Note 2)	CJ	20				10				pF
Typical Thermal Resistance (Note 3)	RθJL	30							°C/W	
Operating Temperature Range	TJ	-55 to +150							°C	
Storage Temperature Range	TSTG	-55 to +150							°C	

- NOTES : 1.Reverse Recovery Test Conditions :IF=0.5A,IR=1.0A,IRR=0.25A.
 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3.Thermal Resistance junction to Lead.

DEVICE CHARACTERISTICS

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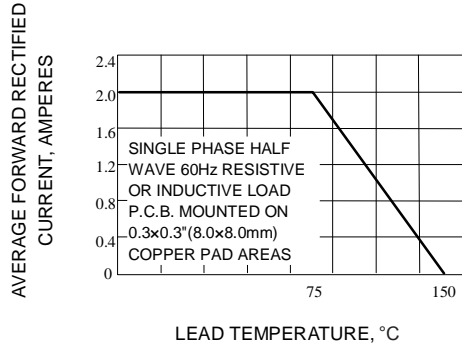


Fig. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

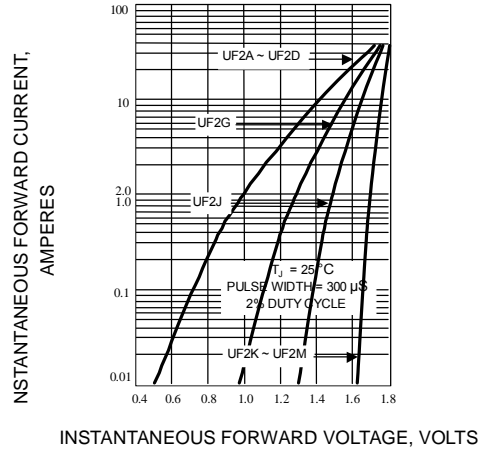


Fig. 2-TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

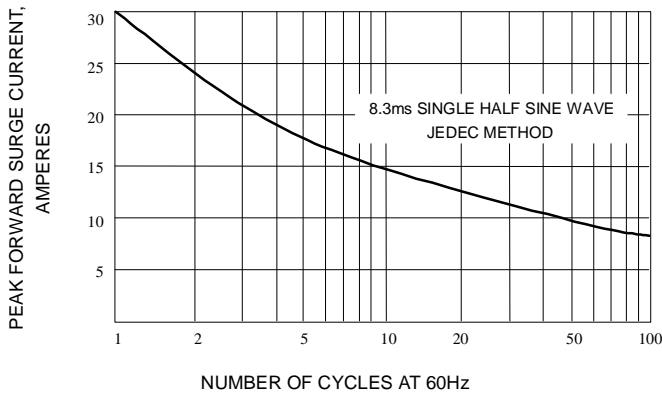


Fig. 3-MAXIMUM FORWARD SURGE CURRENT

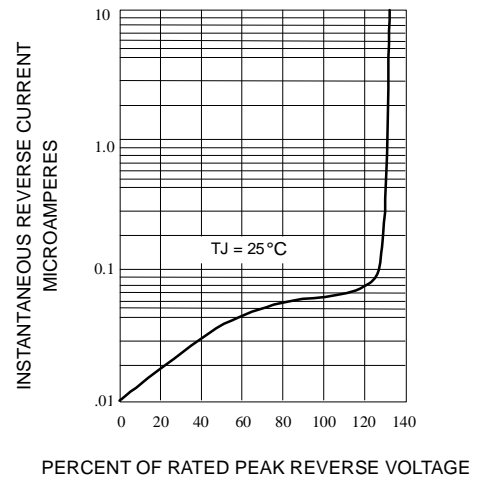


Fig. 4-TYPICAL REVERSE CHARACTERISTICS

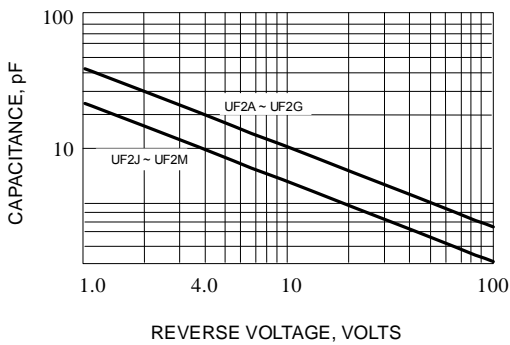


Fig. 5-TYPICAL JUNCTION CAPACITANCE

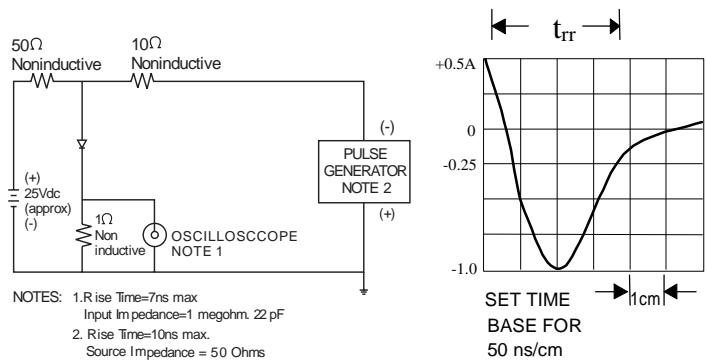


Fig. 6-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM