

UF2AF~UF2JF

SURFACE MOUNT ULTRA FAST RECTIFIER

VOLTAGE 50-600 Volts CURRENT 2 Amperes

SMBF

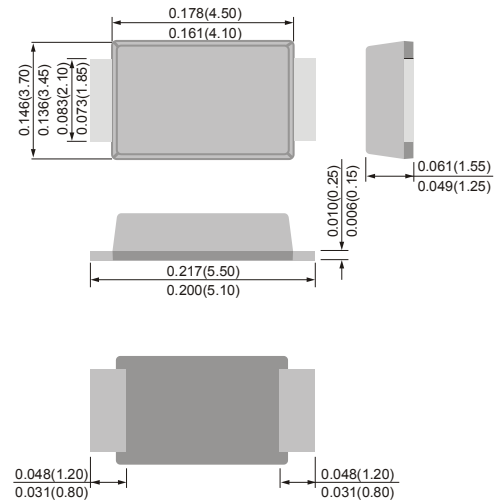
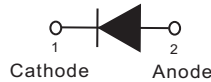
Unit : inch(mm)

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Ultrafast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity : Color band denotes cathode end



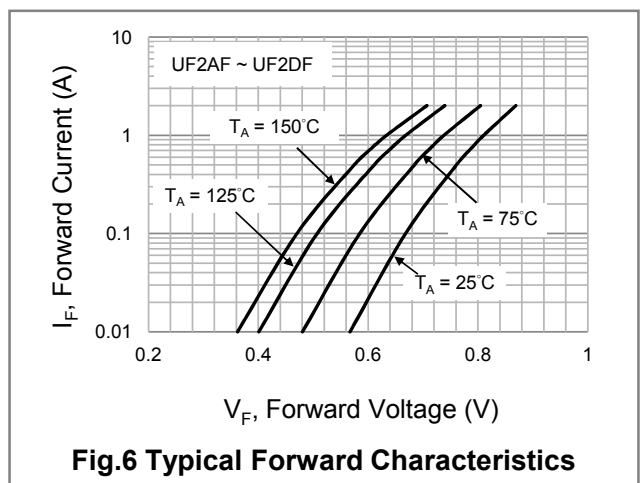
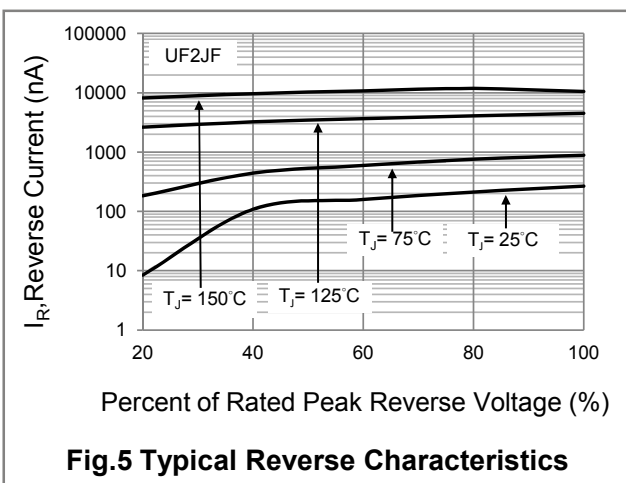
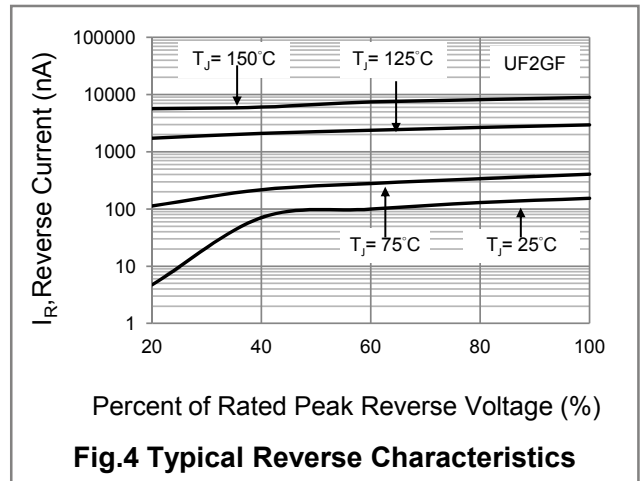
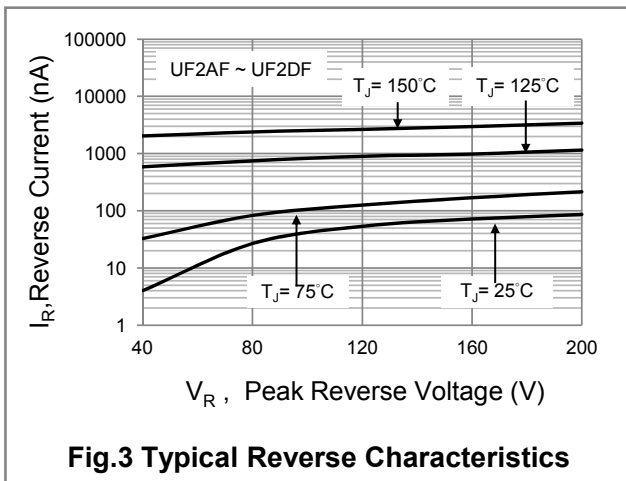
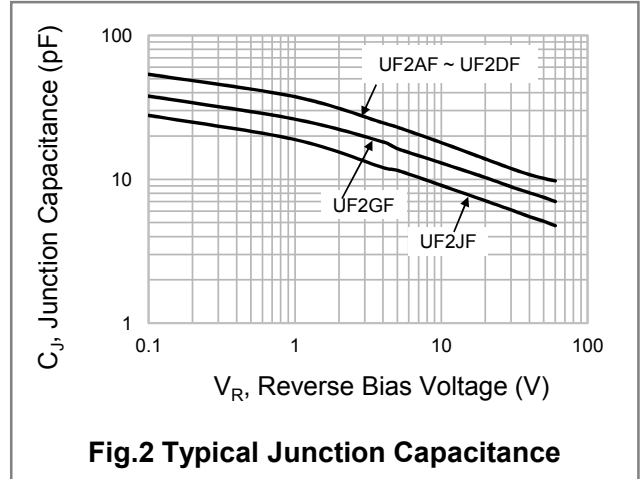
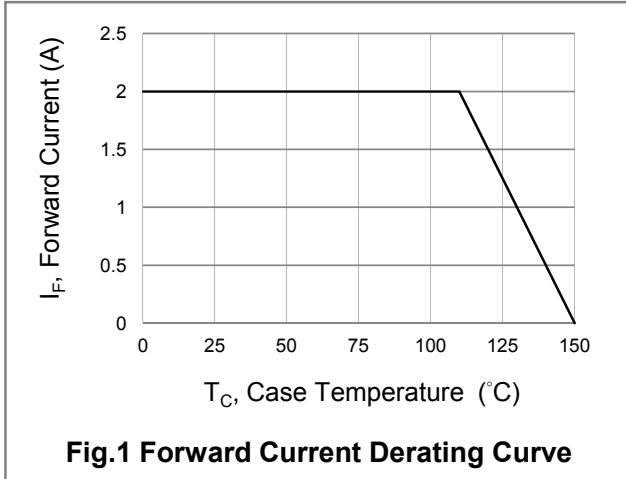
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	UF2AF	UF2BF	UF2DF	UF2GF	UF2JF	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
RMS Voltage	V _{RMS}	35	70	140	280	420	V
DC Blocking Voltage	V _R	50	100	200	400	600	V
Average Forward Current	I _{F(AV)}	2					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50					A
Forward Voltage at 2.0A	V _F	1		1.3	1.7	V	
DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	5					μA
Typical Junction capacitance V _R =4V, f=1MHz	C _J	37		27	18	pF	
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)	R _{θJL} R _{θJA}	20 135					°C / W
Reverse Recovery Time (I _F =0.5A, I _R =1.0A, I _{tr} =0.25A)	T _{rr}	50			100	ns	
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150					°C

NOTES : 1. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area
2. Mounted on an FR4 PCB, single-sided copper, mini pad.

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RATING AND CHARACTERISTIC CURVES



UF2AF ~UF2JF

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