



YENYO

US1000FL THRU US1010FL

1.0A Ultra Fast Recovery Rectifier

1. 封裝 Package

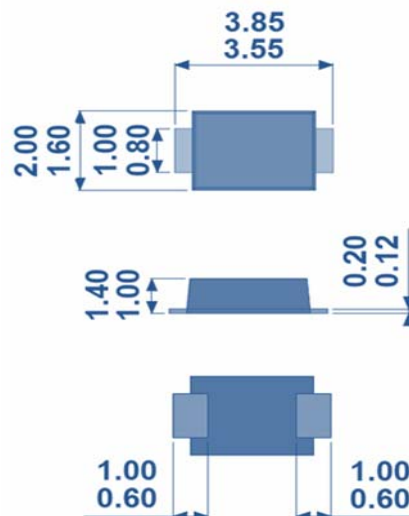
- 封裝方式 Method: SOD-123S
- 封裝尺寸 Dimension: 如圖示

2. 產品特色 Features

- For surface mounted applications in order to optimize board space
- Ideal for automated placement
- Glass Passivated Chip Junction
- High temperature soldering : 260°C/10 seconds at terminals
- Lead-free & halogen-free parts, RoHS compliant

3. 機械數據 Mechanical Data

- Case: Molded plastic over passivated junction
- Terminals: Solder plated solderable per MIL-STD-750 Method 2026
- Polarity: Color band denotes cathode end
- Weight: approx.. 0.0173 grams



4. 極限值與電參數 Maximum Ratings & Electrical Characteristic

單位 Unit: millimeters

PARAMETER	Symbol	US1000FL	US1001FL	US1002FL	US1004FL	US1006FL	US1008FL	US1010FL	UNITS
Marking Code	-	U1A	U1B	U1D	U1G	U1J	U1K	U1M	-
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current T _A =25 °C	I _{F(AV)}	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave T _J =25°C	I _{FSM}	30							Amps
Max. Instantaneous Forward Voltage at 1.0A	V _F	1			1.4	1.7			Volts
DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	3							uA
Thermal Resistance (NOTE 1)	R _{θJA}	200							°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
Reverse Recovery Time I _F =0.5A I _R =1A I _{RR} =0.25A	T _{rr}	50				75			nS

Notes:

- (1) Mounted on an FR4 PCB, single-sided copper, mini pad.



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5. 特性曲線 Rating & Characteristic Curves

Fig. 1 Typical Forward Characteristics

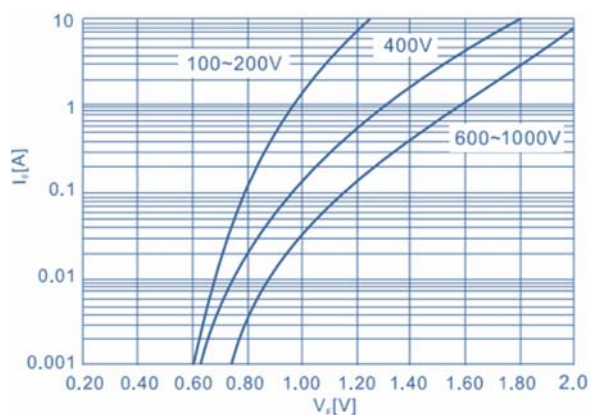


Fig. 2 Forward Current Derating Curve

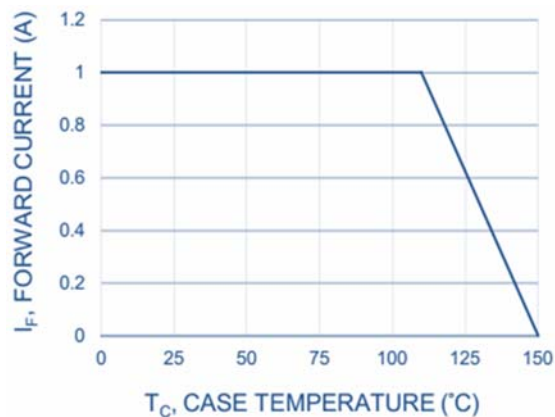


Fig. 3 Typical Reverse Characteristic

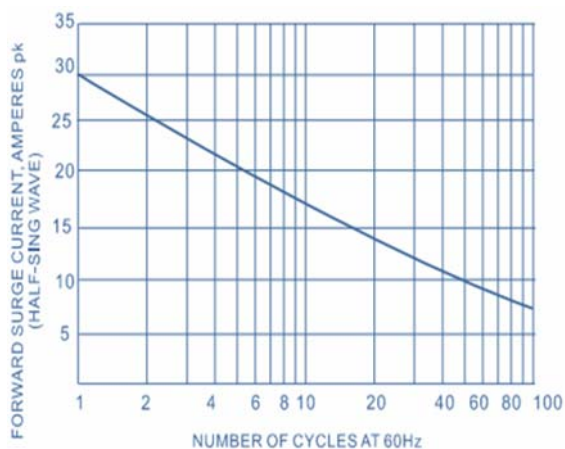


Fig. 4 Max. Non-Repetitive Surge Current

