



YENYO

# FS1000FL THRU FS1006FL 1.0A Super Fast Recovery Rectifier

## 1. 封裝 Package

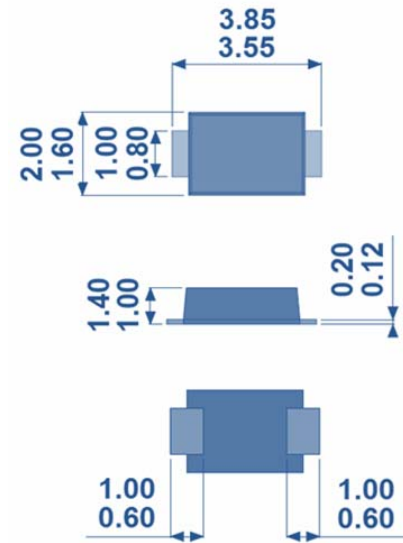
- 封裝方式 Method: SOD-123S
- 封裝尺寸 Dimension: 如圖示

## 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



單位 Unit: millimeters

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

PARAMETER	Symbol	FS1000FL	FS1001FL	FS1002FL	FS1004FL	FS1006FL	UNITS
Marking Code	-	E1A	E1B	E1D	E1G	E1J	-
Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	Volts
RMS Voltage	$V_{RMS}$	35	70	140	280	420	Volts
DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	Volts
Average Forward Current $T_L=120^{\circ}C$	$I_{F(AV)}$	1.0					Amps
Peak Forward Surge Current: 8.3ms single half sine-wave $T_L=25^{\circ}C$	$I_{FSM}$	30					Amps
Max. Instantaneous Forward Voltage at 1.0A	$V_F$	0.95			1.25	1.7	Volts
DC Reverse Current at Rated $T_J=25^{\circ}C$	$I_R$	3					uA
DC Blocking Voltage $T_J=100^{\circ}C$		10					
Reverse Recovery Time $I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$	$T_{rr}$	35					ns
Typical Thermal Resistance (NOTE1.2)	$R_{\theta JA}$	200					$^{\circ}C/W$
	$R_{\theta JC}$	30					
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150					$^{\circ}C$

Notes:

- (1) Mounted on an FR4 PCB, single-sided copper, mini pad.
- (2) Mounted on an FR4 PCB, single-sided copper, with 10cm x 10cm copper pad area.



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### 5. 特性曲線 Rating & Characteristic Curves

Fig. 1 Forward Current Derating Curve

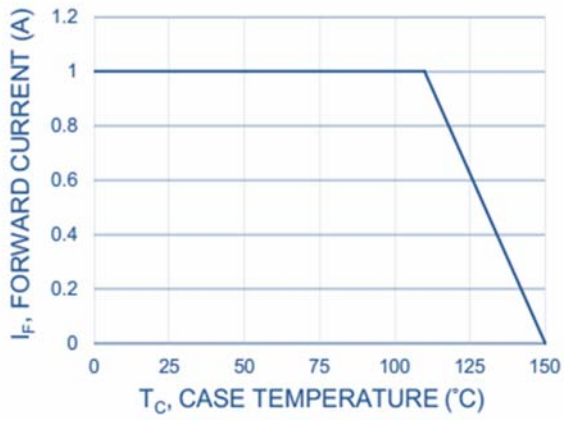


Fig. 2 Typical Forward Characteristics

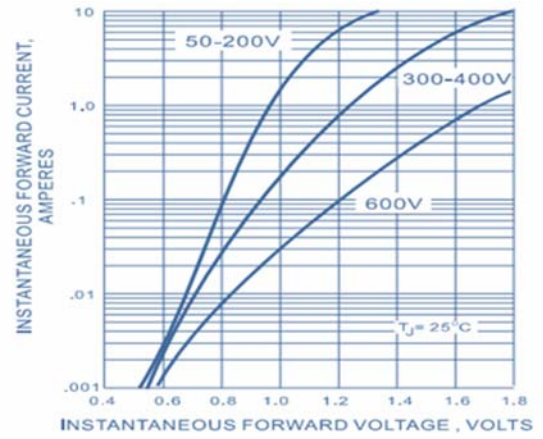


Fig. 3 Typical Leakage Current vs. Junction

