YENYO

FS1000FL THRU FS1006FL

1.0A Super Fast Recovery Rectifier

1. 封裝 Package

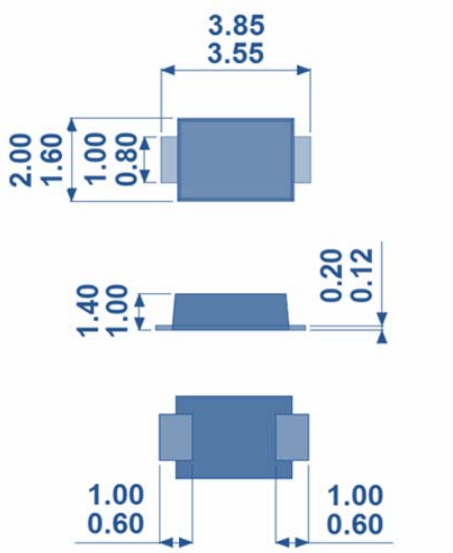
- 封裝方式 Method: SOD-123S
- 封裝尺寸 Dimension: 如圖示

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℃/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 °C	$I_{F(AV)}$	1.0					Amps
Peak Forward Surge Current: 8.3ms single half sine-wave T_L=25°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 °C	I_R	3					uA
DC Blocking Voltage T_J=100°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					℃/W
	$R_{\theta JC}$	30					
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150					℃

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.

R02,JUL-15

FS1000FL THRU FS1006FL
1.0A Super Fast Recovery Rectifier

5. 特性曲線 Rating & Characteristic Curves

Fig. 1 Forward Current Derating Curve

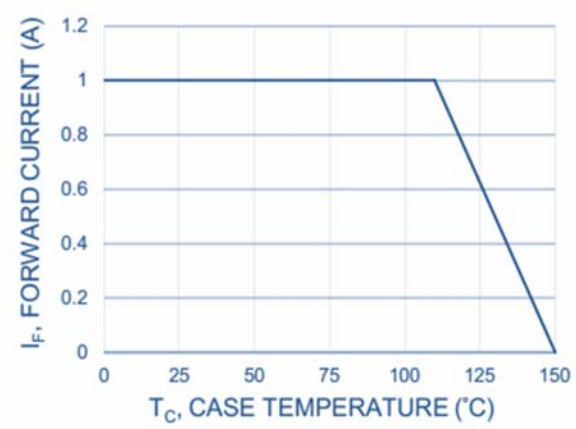


Fig. 2 Typical Forward Characteristics

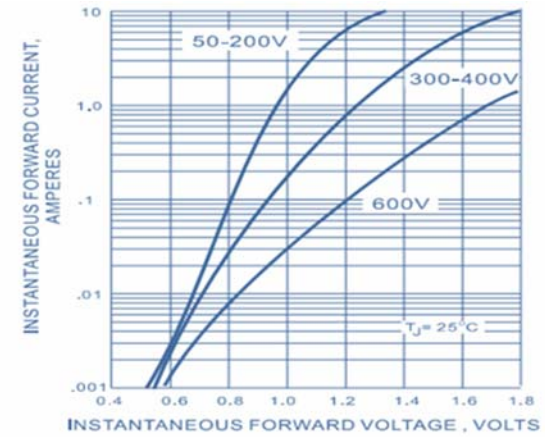
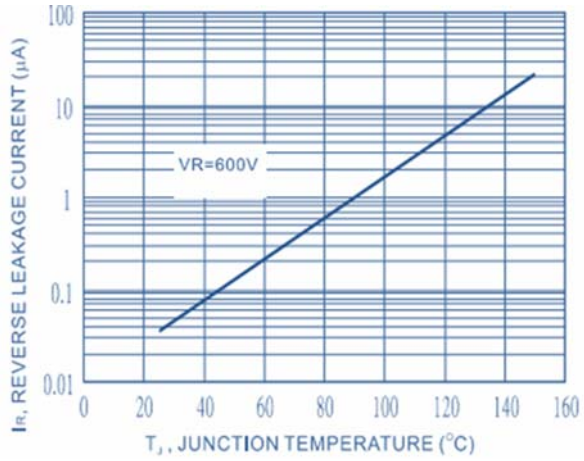


Fig. 3 Typical Leakage Current vs. Junction



R02,JUL-15