

CHENMKO ENTERPRISE CO.,LTD

FM101SPT **THRU** FM107SPT

FAST RECOVERY RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

FEATURES

- Low leakage current
- Ideal for surface mounted applications
- Metallurgically bonded construction
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

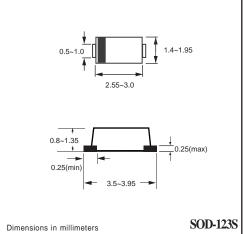
Case: JEDEC SOD-123S molded plastic

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGES (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FM101SPT	FM102SPT	FM103SPT	FM104SPT	FM105SPT	FM106SPT	FM107SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current at TA = 75°C	lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amps
Typical Junction Capacitance (Note 1)	CJ	15							pF
Operating and Storage Temperature Range	TJ,STG	-65 to +150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	FM101SPT	FM102SPT	FM103SPT	FM104SPT	FM105SPT	FM106SPT	FM107SPT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	VF	1.3						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage at TA = 25°C	lr	5.0							uAmps
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) lead length at TL = 55°C	IR	100							uAmps
Maximum Reverse Recovery Time (Note 2)	trr		1	150		250	50	00	nSec

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2. Test Conditions : IF = 0.5 A, IR = -1.0 A, IRR = -0.25 A

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RATING CHARACTERISTIC CURVES (FM101SPT THRU FM107SPT)

