

# A1 THRU A7

#### **GENERAL PURPOSE PLASTIC RECTIFIER**

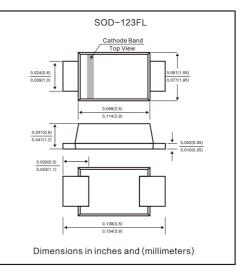
Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Amperes

#### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- " Construction utilizes void-free molded plastic technique
- " Low reverse leakage
- High forward surge current capability
  High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

### MECHANICAL DATA

Case: JEDEC SOD-123 molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.012 ounce, 0.3 gram



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

		A1	A2	A3	A4	A5	A6	A7	
	SYMBOLS								UNITS
*Maximum repetitive 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 rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> =75°C	I(AV)	1.0						Amp	
*Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) Ta=75°C	IFSM	30.0						Amps	
*Maximum instantaneous forward voltage at 1.0A	VF	1.1						Volts	
*Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at TL=75°C	IR(AV)	30.0						μA	
*Maximum DC reverse current $T_A= 25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$	IR	5.0 50.0						μΑ	
Typical reverse recovery time (NOTE 1)	trr	30.0					μs		
Typical junction capacitance (NOTE 2)	CJ	15.0						pF	
Typical thermal resistance (NOTE 3)	Roja Rojl	50.0 25.0					°C/W		
Maximum DC blocking voltage temperature	TA	+150						°C	
*Operating junction and storage temperature range	Tj, Tstg	-50 to +175						°C	

#### NOTES:

(1) Measured on Tektronix Type "S" recovery plug-in. Tektronix 545 Scope or equivalent, IFM=20mA, IRM=1mA

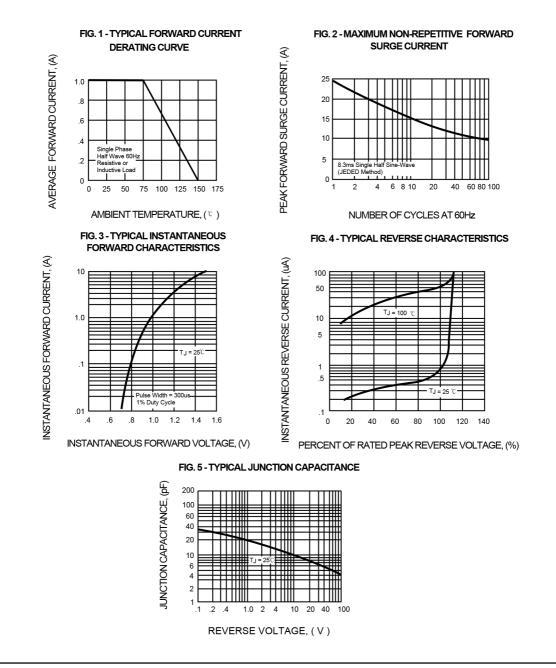
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

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# RATINGS AND CHARACTERISTIC CURVES A1 THRU A7



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