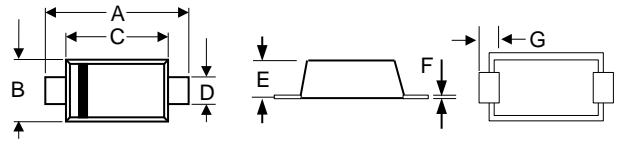


A1 THRU A7

1.0 Amp. Glass Passivated Rectifiers

Features

- * Low reverse leakage
- * Easy pick and place
- * High temp soldering: 260°C for 10 seconds at terminals
- * Metallurgically bonded construction



RoHS
COMPLIANT



DIM.	SOD-123F			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.154	3.50	3.90
B	0.067	0.075	1.70	1.90
C	0.102	0.114	2.60	2.90
D	0.031	0.043	0.80	1.10
E	0.035	0.045	0.88	1.15
F	0.004	0.008	0.10	0.20
G	0.028	0.035	0.70	0.90

Mechanical Data

- * Case: SOD-123F Molded plastic
- * Terminals: Solderable per MIL-STD-750, Method 2026
- * Polarity: Color band denotes cathode end □
- * Mounting Position: Any □

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Type Number	Symbols	A1	A2	A3	A4	A5	A6	A7	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1.0A	V _F	1.1							V
Maximum D.C Reverse Current @ T _J =25°C	I _R	5							μA
at Rated D.C Blocking Voltage @ T _J =125°C		50							
Typical Junction Capacitance (Note1)	C _J	4							pF
Typical Thermal Resistance (Note2)	R _{θJA}	180							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note 1: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Note 2: Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

Ratings and Characteristic Curves

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

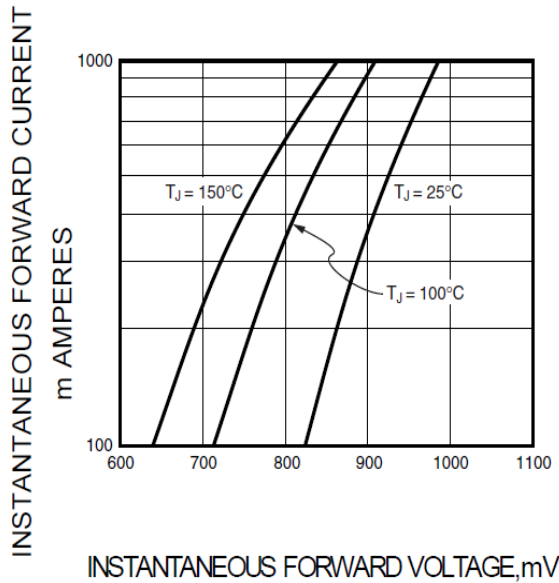


FIG.2 – TYPICAL JUNCTION CAPACITANCE

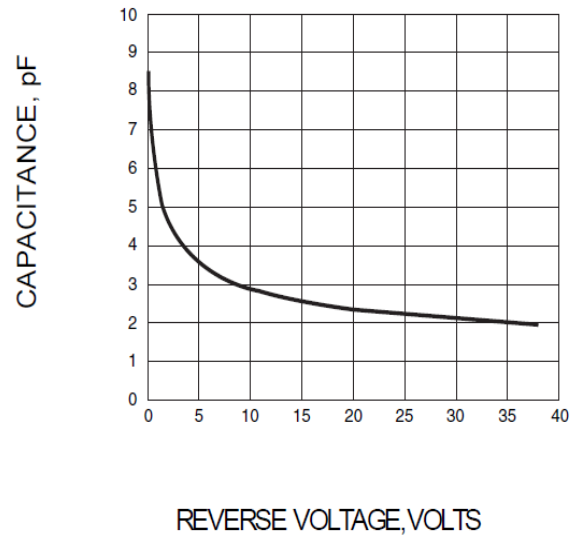


FIG.3 – TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS

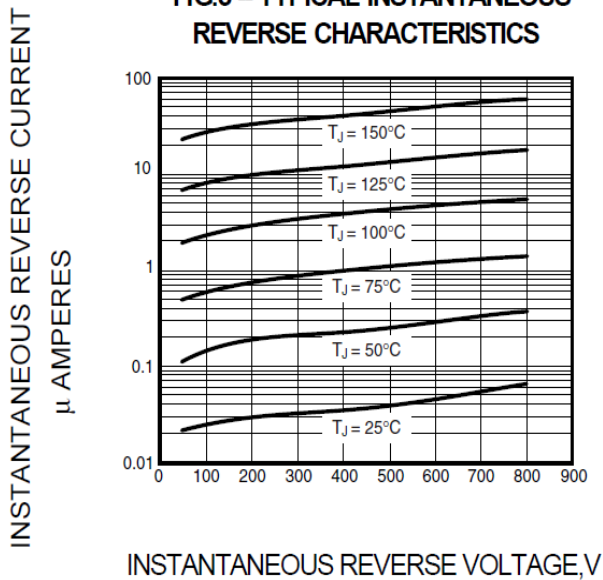
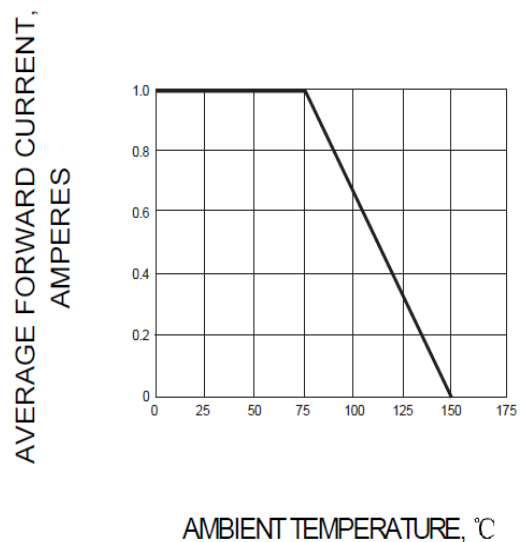


FIG.4 – FORWARD DERATING CURVE





A1 THRU A7

1.0 Amp. Glass Passivated Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
A1 THRU A7	SOD-123F	R30	3000pcs/Reel

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