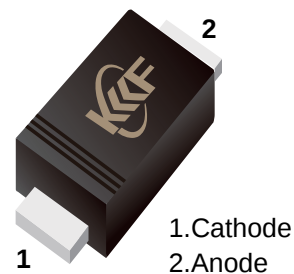


1N4001W~1N4007W

General Purpose Silion Rectifiers

Features

- Surface Mount General Purpose Silicon Rectifiers
- Reverse Voltage - 50 to 1000 V
- Forward Current: 1 A



■ Simplified outline(SOD-123FL)

Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	1N4001W	1N4002W	1N4003W	1N4004W	1N4005W	1N4006W	1N4007W	Unit
Repetitive Peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Surge Peak reverse voltage	VRSM	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	
Forward voltage @IF=1A	VF	1.1							
Max.averaged fwd.current. @ Ta =65℃	IFAV	1							A
Peak forward surge current	IFSM	25							
Maximum DC Reverse Current Ta=25℃ Ta=125℃	IR	5							μA
		100							
Typical Junction Capacitance *1	Cj	4							pF
Thermal Resistance Junction to Ambient *2	R θ JA	180							℃/W
Junction temperature	Tj	150							℃
Storage temperature	Tstg	-55 to 150							

* 1 Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

Marking

NO.	1N4001W	1N4002W	1N4003W	1N4004W	1N4005W	1N4006W	1N4007W
Marking	A1	A2	A3	A4	A5	A6	A7

1N4001W~1N4007W

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

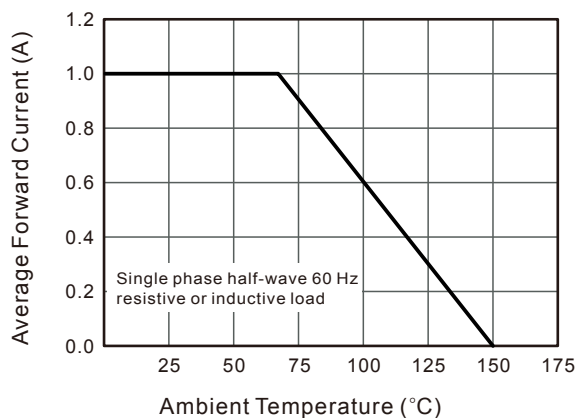


Fig.2 Typical Instaneous Reverse Characteristics

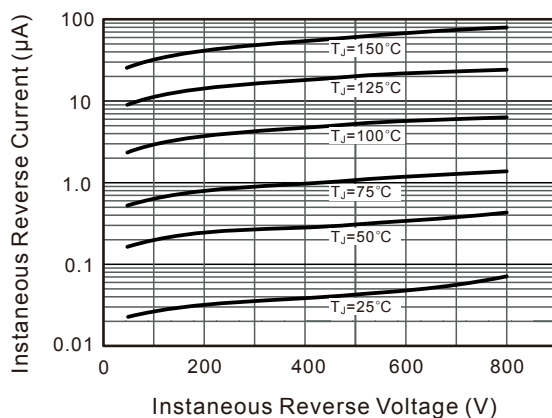


Fig.3 Typical Forward Characteristic

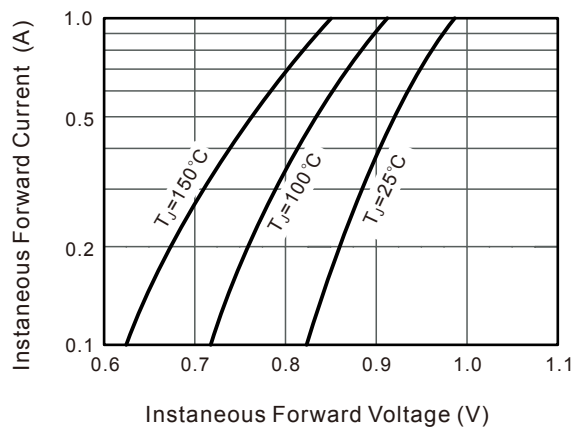
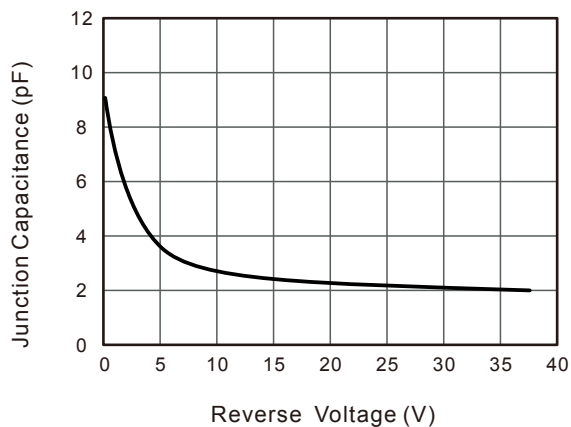
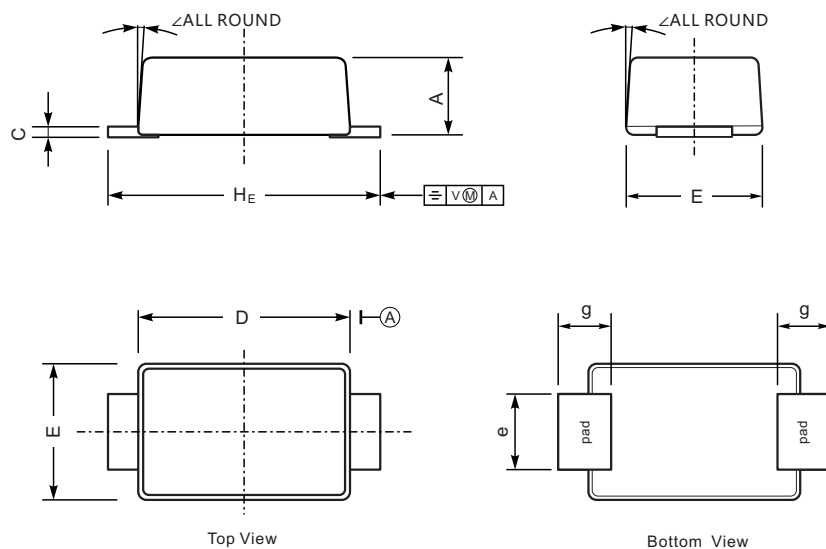


Fig.4 Typical Junction Capacitance



1N4001W~1N4007W

■ SOD-123FL



UNIT		A	C	D	E	e	g	H _E	$\angle$
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

■ The recommended mounting pad size

