

0A95/05 368-039

User: Messrs.

Type: OA95 (High reverse voltage type)

No XX-HH-EO78-b

Application: AM Detector, Switching, etc.

Cathode Mark(s): Color Green, Line(s) 1

Fig. 1 Mechanical Data [JEDEC DO-7
(Dimensions in mm) [EIA] SC-1A

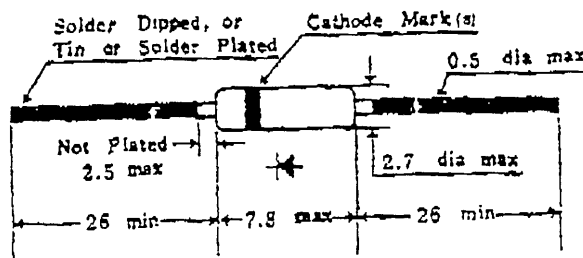
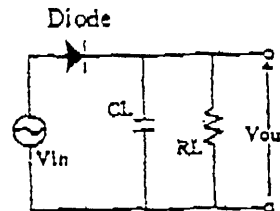


Fig. 2 Measuring Circuit for Rectifying Efficiency



$$\eta = \frac{V_{out}}{\sqrt{2} V_{in}} \times 100(\%)$$

Absolute Maximum Ratings at Tamb = 25°C

Characteristics	Symbols	Absolute Maximum Values	Units
Peak Reverse Voltage (Repetitive)	VR(p)	100	V
Reverse Voltage (DC)	VR	90	V
Peak Forward Surge Current (Not Repetitive)	IF(surge)	0.5	A
Peak Forward Current (Repetitive)	IF(p)	150	mA
Average Rectified Current	Io	50	mA
Operating Junction Temperature	Tj	70	°C
Storage Ambient Temperature	Tstg	-55 ~ +70	°C

Electrical Characteristics at Tamb = 25°C

Test Items	Symbols	Test Conditions	Limits			Units	Inspection Level	AQL
			Min	Typ	Max			
Forward Current	IF	VF = 1 V	5		-	mA	II	1.0
Reverse Current	IR1	VR1 = -10 V	-		20	μA	II	1.0
Reverse Current	IR2	VR2 = -100 V	-		250	μA	II	1.0
Junction Capacitance	Cj	f = 1MHz, VR = -1V	-		1.0	pF	I	1.0
Rectifying Efficiency	η	f = 455KHz, CL = 0.01 μF Vin = 1 Vrms, RL = 5 KΩ	60		-	%	I	1.0
Pair			-		-			

Reliability Test (Sampling Inspection is generally performed once a year.)

Test Items	Test Conditions	Criteria	Inspection Level	AQL
Mechanical Dimensions		See Fig. 1	II	1.5
Leads Bending	W = 250gr, θ = 90°, 3 times	No Visual breakage	S-3	2.5
Drop	h = 1m, 3 drops to wooden board	IF ≥ 0.8 × limit value IR ≤ 2.0 × limit value	S-3	2.5

Inspection Method: MIL-STD-105D, Normal Inspection, Single Sampling Plan.

Packing: UNIZON Method	Remarks
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