



Type: 0A95 (High reverse voltage type)

No XX-HH-E07B-6

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]

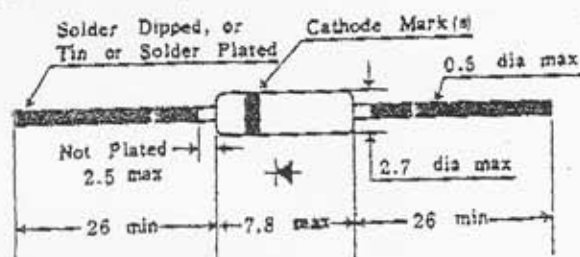
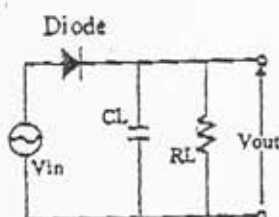


Fig. 2 Measuring Circuit for Rectifying Efficiency



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

Absolute Maximum Ratings at $T_{amb} = 25^{\circ}\text{C}$

Characteristics	Symbols	Absolute Maximum Values	Units
Peak Reverse Voltage (Repetitive)	$V_R(p)$	100	V
Reverse Voltage (DC)	V_R	90	V
Peak Forward Surge Current (Not Repetitive)	$I_F(\text{surge})$	0.5	A
Peak Forward Current (Repetitive)	$I_F(p)$	150	mA
Average Rectified Current	I_o	50	mA
Operating Junction Temperature	T_j	70	$^{\circ}\text{C}$
Storage Ambient Temperature	T_{stg}	$-55 \sim +70$	$^{\circ}\text{C}$

Electrical Characteristics at $T_{amb} = 25^{\circ}\text{C}$

Test Items	Symbols	Test Conditions	Limits			Units	Inspection Level	AQL
			Min	Typ	Max			
Forward Current	I_F	$V_F = 1 \text{ V}$	5		—	mA	II	1.0
Reverse Current	I_{R1}	$V_R = -10 \text{ V}$	—		20	μA	II	1.0
Reverse Current	I_{R2}	$V_R = -100 \text{ V}$	—		250	μA	II	1.0
Junction Capacitance	C_j	$f = 1\text{MHz}, V_R = -1 \text{ V}$	—		1.0	pF	I	1.0
Rectifying Efficiency	η	$f = 455\text{KHz}, C_L = 0.01 \mu\text{F}$ $V_{in} = 1 \text{ Vrms}, R_L = 5 \text{ K}\Omega$	60		—	%	I	1.0
Pair			—		—			

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

Test Items	Test Conditions	Criteria	Insp Level	AQL
Mechanical Dimensions		See Fig. 1	II	1.5
Leads Bending	$W = 250\text{gr}, \theta = 90^{\circ}, 3\text{times}$	No Visual breakage	S-3	2.5
Drop	$h = 1\text{m}, 3 \text{ drops to wooden board}$	$I_F \geq 0.8 \times \text{limit value}$ $I_R \leq 2.0 \times \text{limit value}$	S-3	2.5

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

Packing : UNIZON Method	Remarks
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