

VOLTAGE RANGE: 1000V

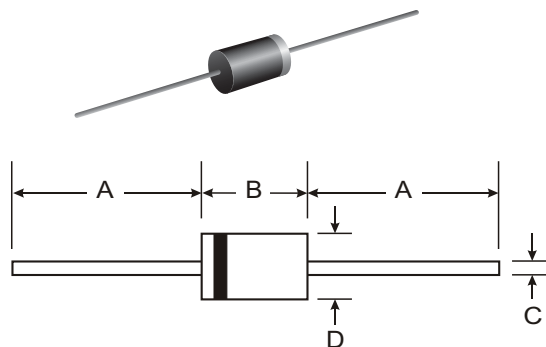
CURRENT: 0.1A

Features

- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

Mechanical Data

- Case: DO-41, molded plastic
- Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounces, 0.34 grams
- Mounting position: Any



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ERA34-10	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	0.1	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T = 125^\circ\text{C}$	I_{FSM}	10.0	A
Maximum instantaneous forward voltage @ 0.1 A	V_F	1.0	V
Maximum reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0 100.0	μA
Maximum reverse recovery time (Note1)	t_{rr}	150	ns
Typical junction capacitance (Note2)	C_J	12	pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	55	$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	-55----+150	$^\circ\text{C}$
Storage temperature range	T_{STG}	-55----+150	$^\circ\text{C}$

NOTE:1. Measured with $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

FIG.1 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

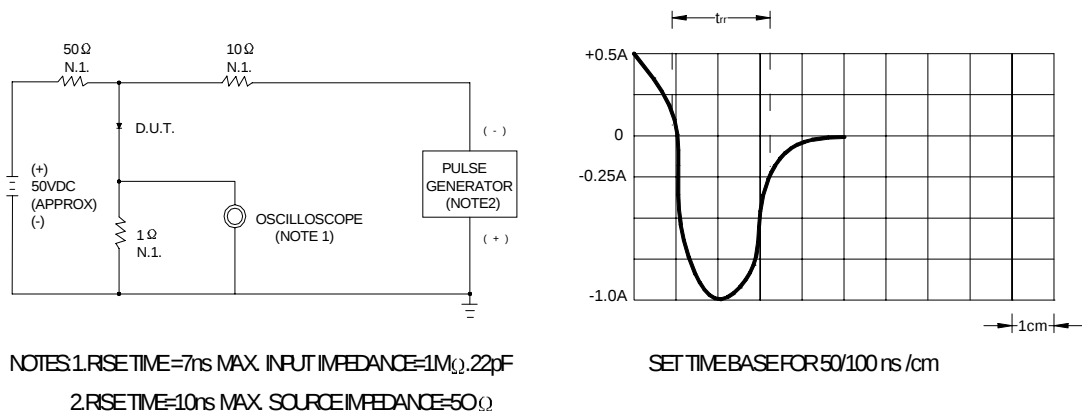


FIG.2 – FORWARD DERATING CURVE

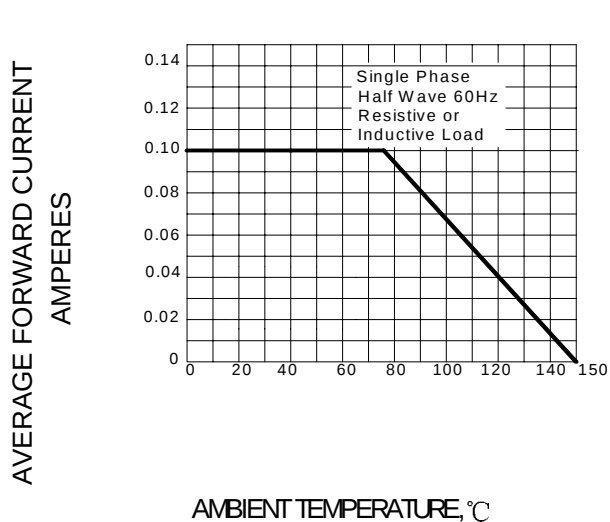


FIG.3 – TYPICAL JUNCTION CAPACITANCE

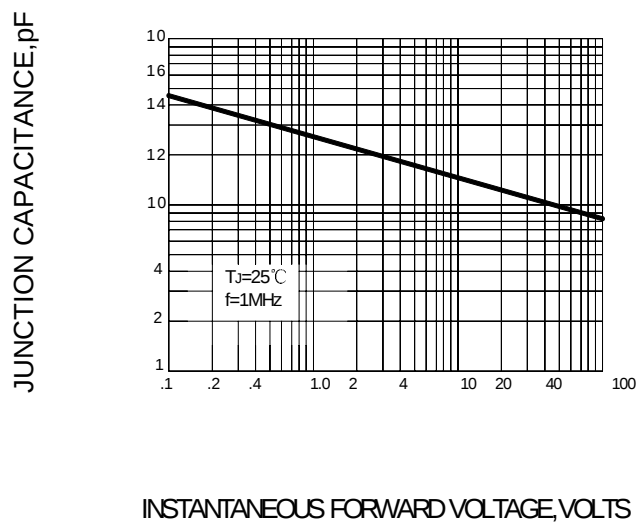


FIG.4 – PEAK FORWARD SURGE CURRENT

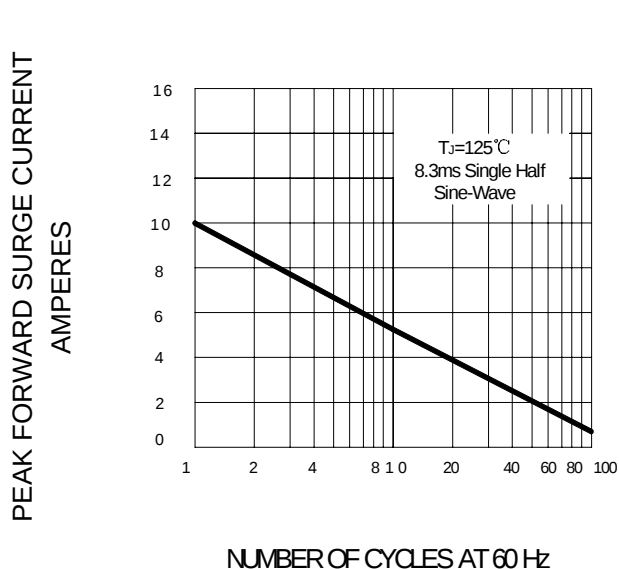


FIG.5 – TYPICAL FORWARD CHARACTERISTIC

