

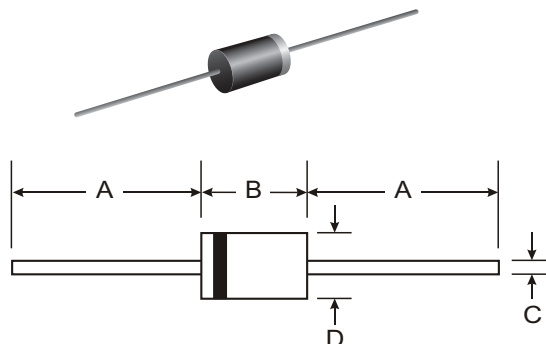
VOLTAGE RANGE: 1000V
CURRENT: 0.1A

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°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°C	I _{F(AV)}	0.1	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	10.0	A
Maximum instantaneous forward voltage @ 0.1 A	V _F	1.0	V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°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 _{θJA}	55	°C/W
Operating junction temperature range	T _J	-55----+150	°C
Storage temperature range	T _{STG}	-55----+150	°C

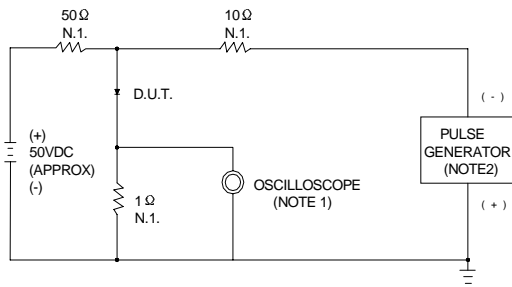
NOTE:1. Measured with I_F=0.5A, I_R=1A, I_r=0.25A.

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

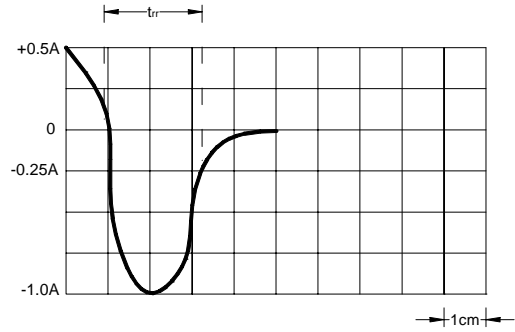
3. Thermal resistance from junction to ambient.



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



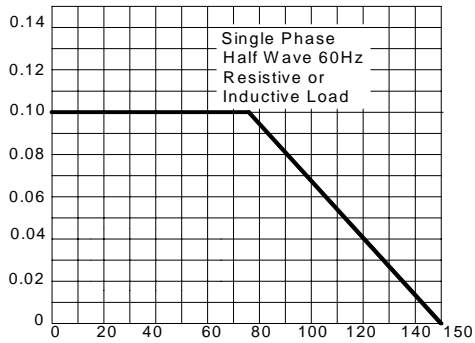
NOTES: 1. RISE TIME=7ns MAX. INPUT IMPEDANCE=1MΩ, 22pF
 2. RISE TIME=10ns MAX. SOURCE IMPEDANCE=50Ω



SET TIMEBASE FOR 50/100 ns/cm

FIG.2 – FORWARD DERATING CURVE

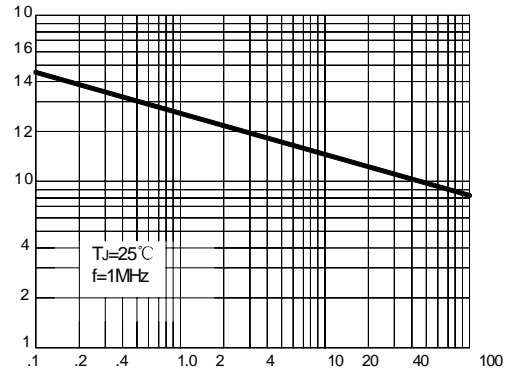
AVERAGE FORWARD CURRENT
AMPERES



AMBIENT TEMPERATURE, °C

FIG.3 – TYPICAL JUNCTION CAPACITANCE

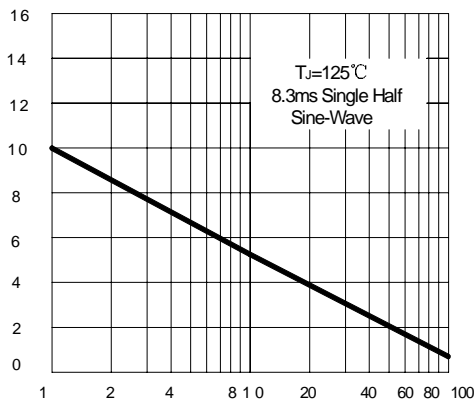
JUNCTION CAPACITANCE, pF



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.4 – PEAK FORWARD SURGE CURRENT

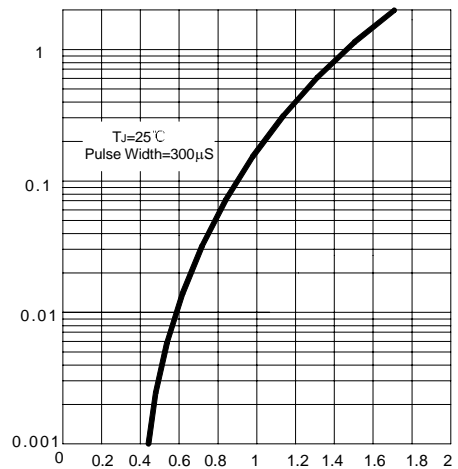
PEAK FORWARD SURGE CURRENT
AMPERES



NUMBER OF CYCLES AT 60 Hz

FIG.5 – TYPICAL FORWARD CHARACTERISTIC

INSTANTANEOUS FORWARD CURRENT
CURRENT AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

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