

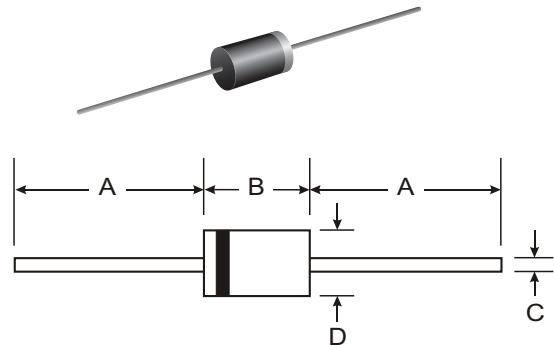
**VOLTAGE RANGE: 100 - 200V**  
**CURRENT: 1.0 A**

### Features

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

### Mechanical Data

- Case: DO - 41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



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		

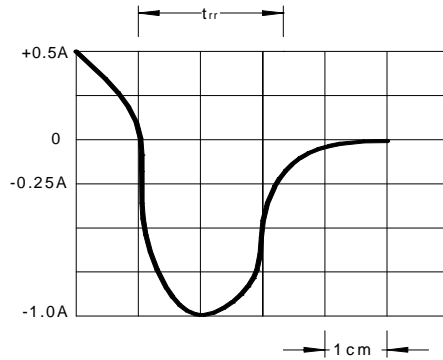
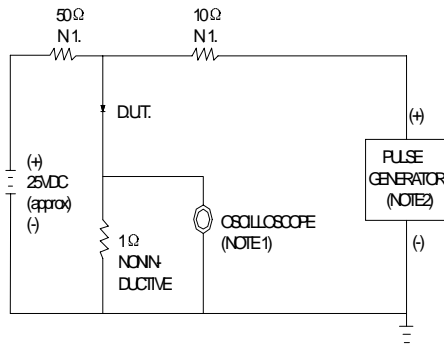
### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	ERA32 - 01	ERA32 - 02	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	100	200	V
Maximum average forward rectified current 9.5mm lead length, @T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	1.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T <sub>J</sub> =125°C	I <sub>FSM</sub>	40.0		A
Maximum instantaneous forward voltage @ 1.0A	V <sub>F</sub>	0.92		V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 50.0		μA
Maximum reverse recovery time (Note1)	t <sub>rr</sub>	50		ns
Typical junction capacitance (Note2)	C <sub>J</sub>	20		pF
Typical thermal resistance (Note3)	R <sub>θJA</sub>	60		°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 ----- + 150		°C
Storage temperature range	T <sub>STG</sub>	- 55 ----- + 150		°C

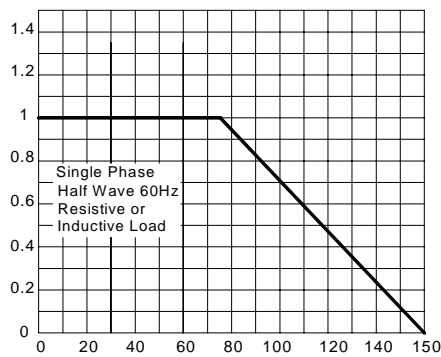
NOTE: 1. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.  
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
 3. Thermal resistance from junction to ambient.

**FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



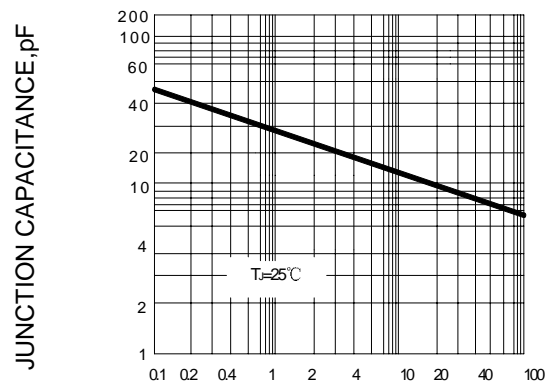
AVERAGE FORWARD RECTIFIED CURRENT. AMPERES

**FIG.3 -FORWARD DERATING CURVE**



AMBIENT TEMPERATURE. °C

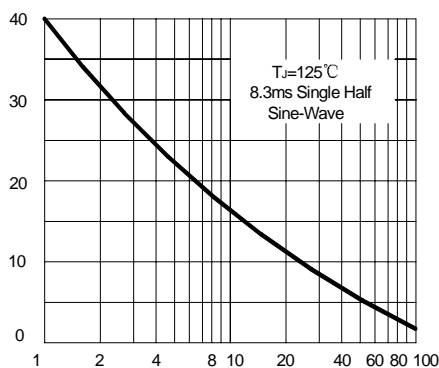
**FIG.4-TYPICAL JUNCTION CAPACITANCE**



REVERSE VOLTAGE, VOLTS

**FIG.5-PEAK FORWARD SURGE CURRENT**

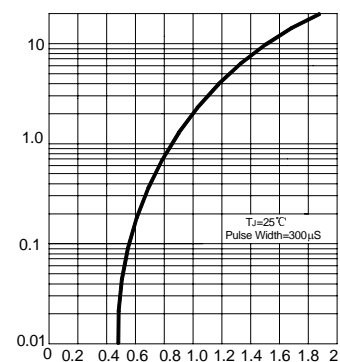
PEAK FORWARD SURGE CURRENT. AMPERES



NUMBER OF CYCLES AT 60Hz

**FIG.1 - TYPICAL FORWARD CHARACTERISTIC**

INSTANTANEOUS FORWARD CURRENT AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS