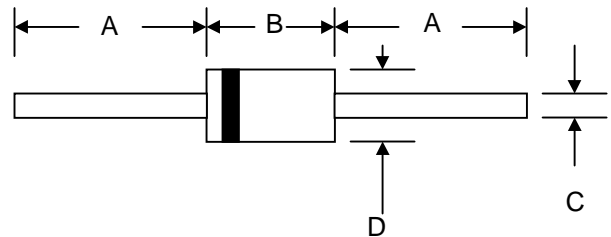
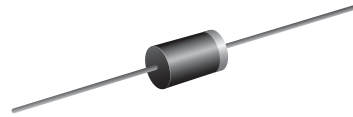


VOLTAGE RANGE: 200 - 600V
CURRENT: 0.25 A



DO-41		
Dim	Min	Max
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, Alcohol, Isopropanol and similar solvents

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



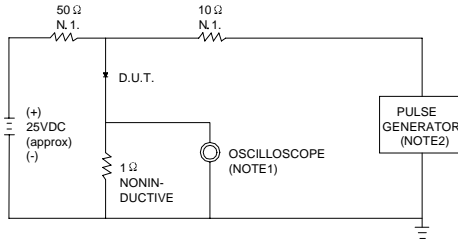
Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

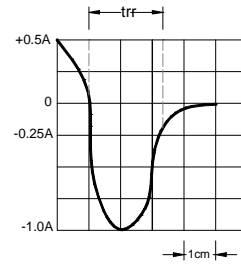
Characteristic	Symbol	EU01Z	EU01	EU01A	Unit
Maximum peak repetitive reverse voltage	V _{RRM}	200	400	600	V
Maximum RMS voltage	V _{RMS}	140	280	420	V
Maximum DC blocking voltage	V _{DC}	200	400	600	V
Maximum average forward rectified current 9.5mm lead length @T _A =75°C	I _{F(AV)}	0.25			A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	15.0			A
Maximum instantaneous forward voltage @ 0.25A	V _F	2.5			V
Maximum reverse current @T _A =25°C at Rated DC blocking voltage @T _A =100°C	I _R	10.0 150.0			μA
Maximum reverse recovery time (Note1)	t _{rr}	100			ns
Typical junction capacitance (Note2)	C _J	20	15		pF
Typical thermal resistance (Note3)	R _{θJL}	20			°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_{rr}=0.25A.
 2. Measured at 1.0MHz and applied reverse of 4.0V DC.
 3. Thermal resistance from junction to ambient.

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



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



SET TIME BASE FOR 10/20 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

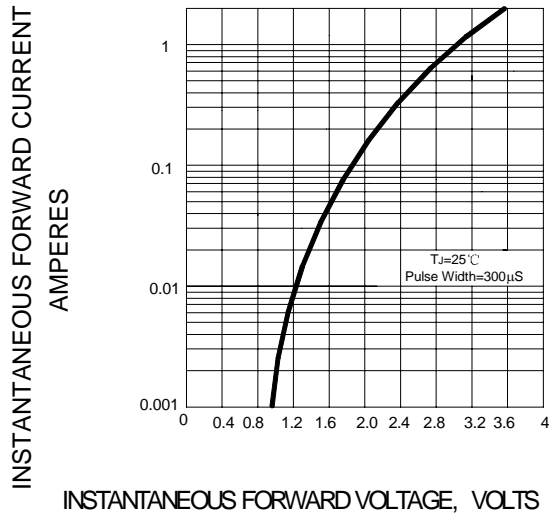


FIG.3 – FORWARD DERATING CURVE

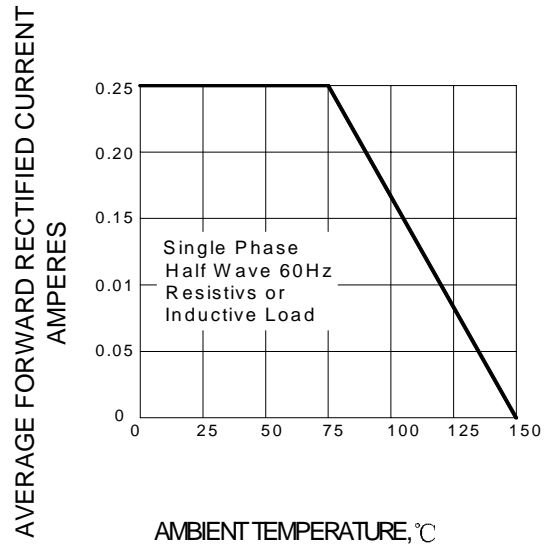


FIG.4 – PEAK FORWARD SURGE CURRENT

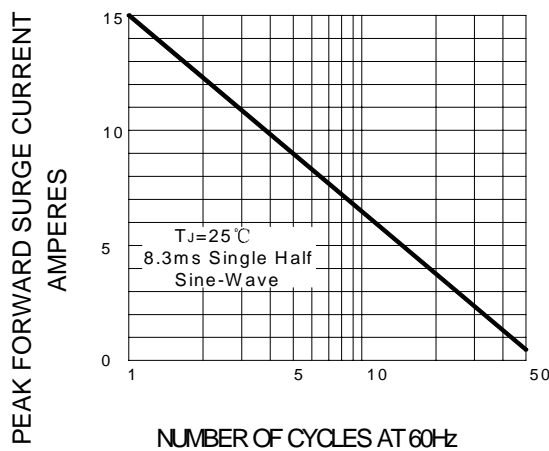


FIG.5 – TYPICAL JUNCTION CAPACITANCE

