



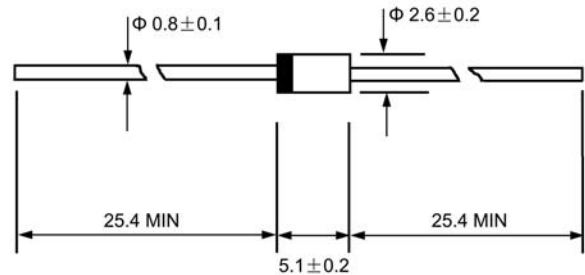
DO - 41

Features

- ◇ Low cost
- ◇ 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: JEDEC DO-41, molded plastic
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.012 ounces, 0.34 grams
- ◇ Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

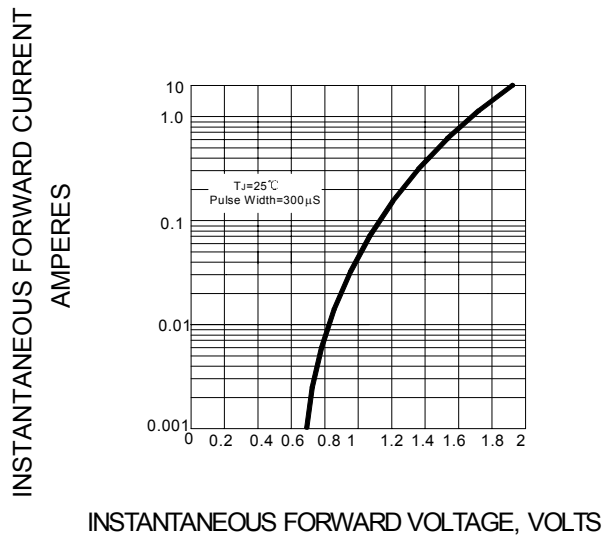
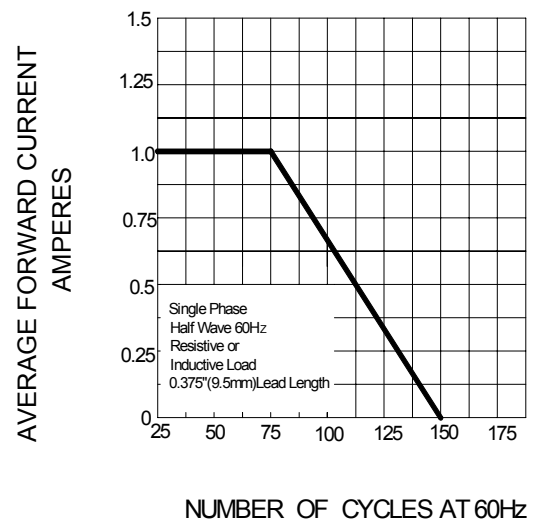
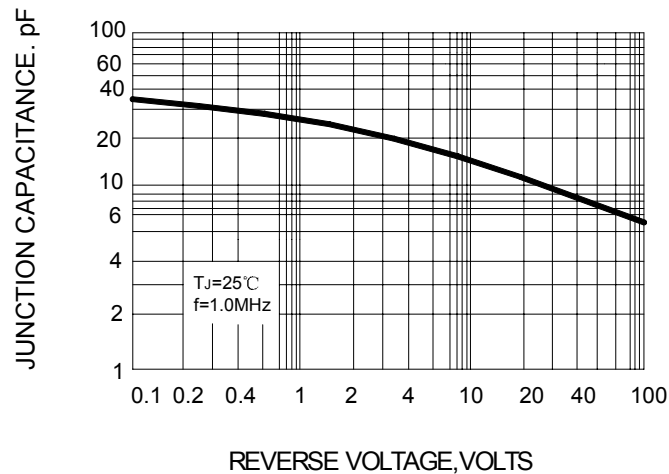
		MUR 120	MUR 130	MUR 140	MUR 150	MUR 160	MUR 170	MUR 180	MUR 190	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	200	300	400	500	600	700	800	900	V
Maximum RMS voltage	V _{RMS}	140	210	280	350	420	490	560	630	V
Maximum DC blocking voltage	V _{DC}	200	300	400	500	600	700	800	900	V
Maximum average forward rectified current 9.5mm lead length, @T _A =75℃	I _{F(AV)}	1.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125℃	I _{FSM}	35.0								A
Maximum instantaneous forward voltage @ 1.0A	V _F	0.875	1.25				1.7		V	
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	2.0 50	5.0 150				10.0 100		μ A	
Maximum reverse recovery time (Note1)	t _{rr}	25	50				75		ns	
Typical junction capacitance (Note2)	C _J	22					15			pF
Typical thermal resistance (Note3)	R _{θJA}	50					60			℃/W
Operating junction temperature range	T _J	- 55 ----- + 150								℃
Storage temperature range	T _{STG}	- 55 ----- + 150								℃

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

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

3. Thermal resistance from junction to ambient.

Ratings AND Characteristic Curves

FIG.1 – TYPICAL FORWARD CHARACTERISTICS

FIG.2 – FORWARD DRATING CURVE

FIG.3 – TYPICAL JUNCTION CAPACITANCE


Ratings AND Characteristic Curves

FIG.4 – TYPICAL REVERSE CHARACTERISTICS

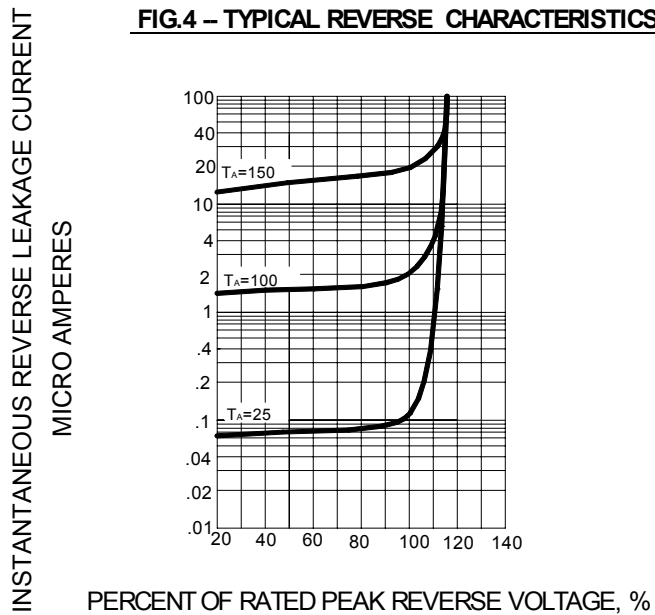


FIG.5 – PEAK FORWARD SURGE CURRENT

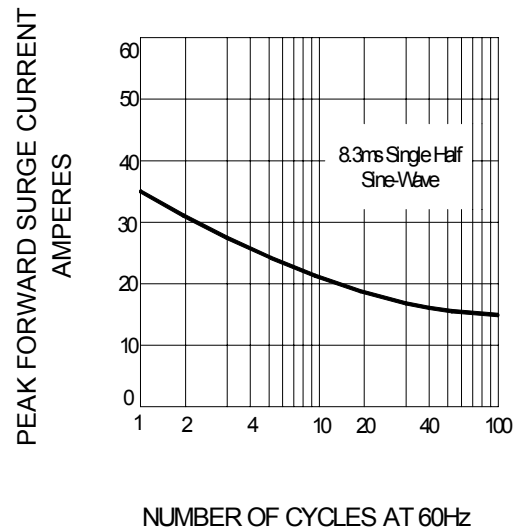
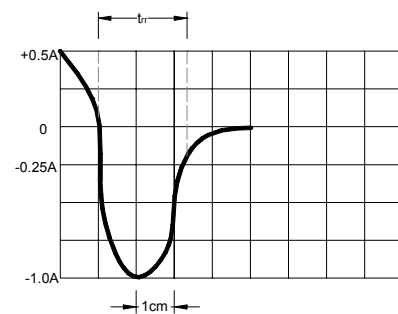
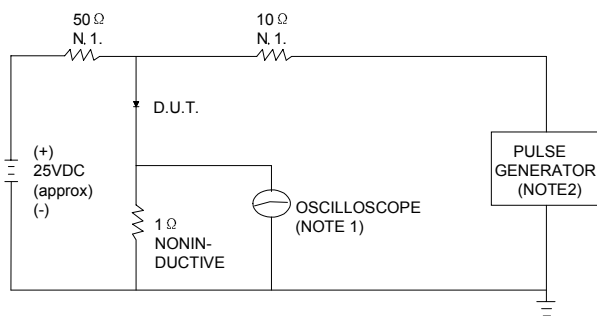


FIG.6 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

SET TIME BASE FOR 10/20 ns/cm