

SUPER FAST RECTIFIERS

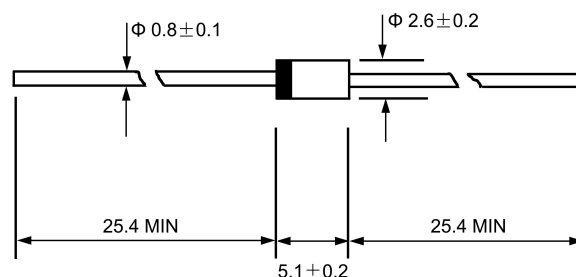
VOLTAGE RANGE: 50 --- 600 V
CURRENT: 1.0 A

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
- ◇ 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

Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

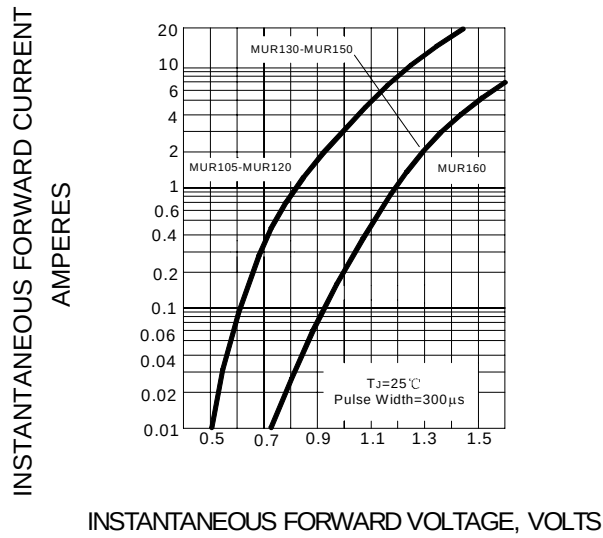
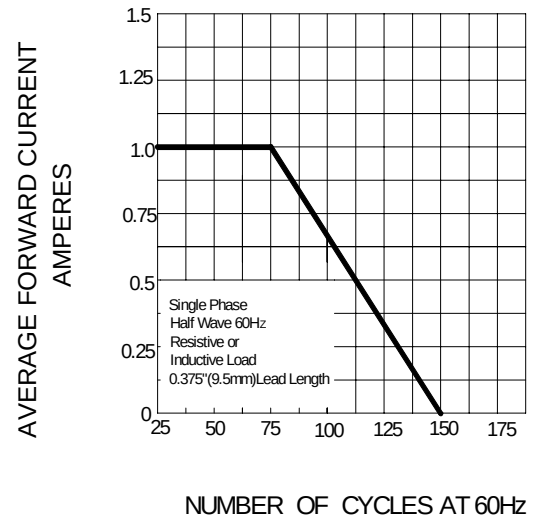
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		MUR 105	MUR 110	MUR 115	MUR 120	MUR 130	MUR 140	MUR 150	MUR 160	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum average forw ard rectified current 9.5mm lead length, @T _A =75℃	I _{F(AV)}	1.0								A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T _J =125℃	I _{FSM}	35.0								A
Maximum instantaneous forw ard voltage @ 1.0A	V _F	0.875				1.40				V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	2.0 50				5.0 150				μ A
Maximum reverse recovery time (Note1)	t _{rr}	25				50				ns
Typical junction capacitance (Note2)	C _J	22								pF
Typical thermal resistance (Note3)	R _{θJA}	50								℃/W
Operating junction temperature range	T _J	- 55 ----- + 150								℃
Storage temperature range	T _{STG}	- 55 ----- + 150								℃

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

2. Measured at 1.0MHz and applied reverse voltage of 4.1V DC.

3. Thermal resistance from junction to ambient.

MUR105 --- MUR160**FIG.1 – TYPICAL FORWARD CHARACTERISTICS****FIG.2 – FORWARD DRATING CURVE****FIG.3 – TYPICAL JUNCTION CAPACITANCE**