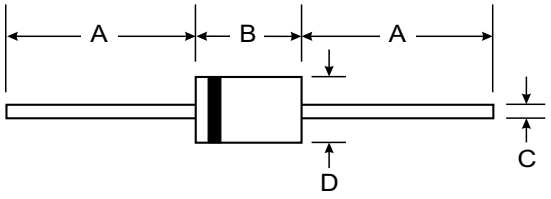
MUR105-MUR160

1.0A Axial Leaded Super Fast Rectifier

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		
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%.

		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				1.2			1.25	V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	10.0 100.0								μA
Maximum reverse recovery time (Note1)	t_{rr}	25				50				ns
Typical junction capacitance (Note2)	C_J	22								pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	50								℃/W
Operating junction temperature range	T_J	- 55 ----- + 150								℃
Storage temperature range	T_{STG}	- 55 ----- + 150								℃

NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.
2. Measured at 1.0MHz and applied reverse voltage of 4.1V DC.
3. Thermal resistance from junction to ambient.

FIG.1 -- TYPICAL FORWARD CHARACTERISTICS

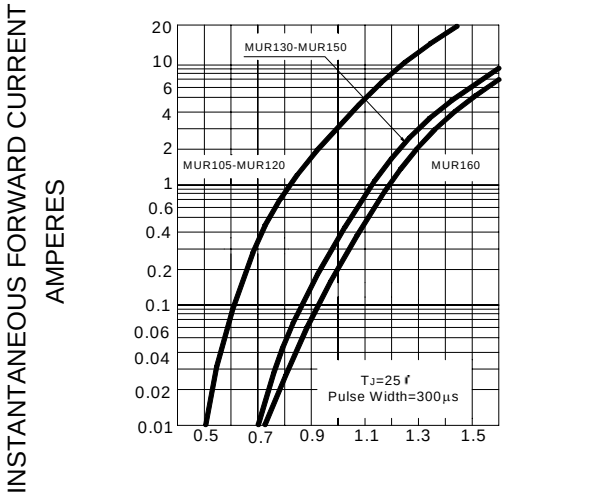


FIG.2 -- FORWARD DRATING CURVE

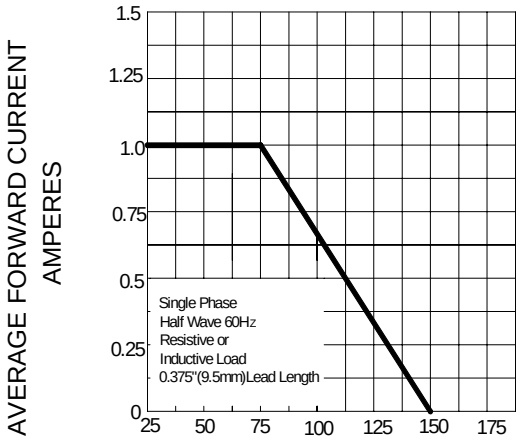


FIG.3 -- TYPICAL JUNCTION CAPACITANCE