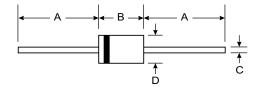


1.0A SUPER-FAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Recovery Time For High Efficiency
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 35A Peak
- Ideally Suited for Automated Assembly
- Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated Terminal -Solderable per MIL-STD-202, Method 208
- Marking: R120
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any

DO-41 Plastic				
Dim	Min	Max		
Α	25.40	_		
В	4.06	5.21		
С	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%.

Characteristic	Symbol	MUR120	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	141	V
Average Rectified Output Current @ T _T = 130°C	I _O	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	35	А
Forward Voltage @ I _F = 1.0A, T _J = 25°C @ I _F = 1.0A, T _J = 150°C	V _{FM}	0.875 0.710	٧
	I _{RM}	2.0 50	μА
Reverse Recovery Time (Note 2)	t _{rr}	25	ns
Forward Recovery Time (Note 3)	t _{fr}	25	ns
Typical Junction Capacitance (Note 1)	Cj	45	pF
Typical Thermal Resistance, Junction to Ambient	R _{θJA}	72	K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175	°C

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 0V DC.
- 2. Measured with $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$. See Figure 5. 3. Measured with $I_F=1.0A$, di/dt = 100A/ μ s, Duty Cycle \leq 2.0%.

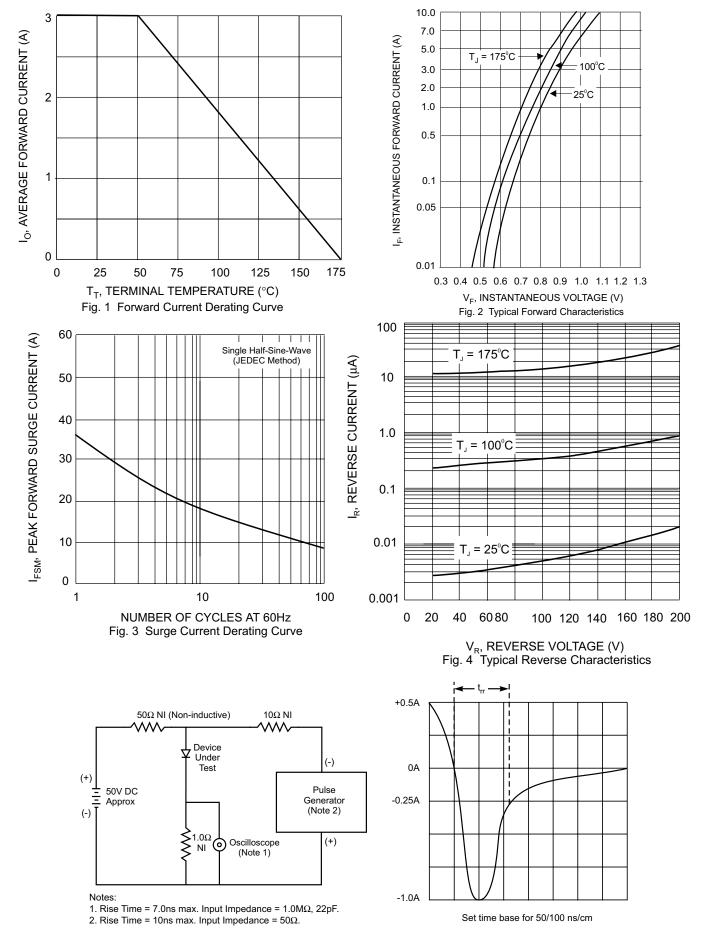


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit