

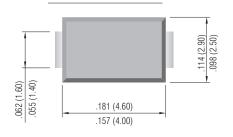
US1A~US1M

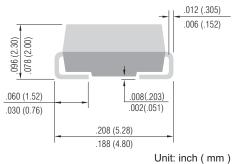
Features

- Glass Passivated Die Construction
- Diffused Junction
- Ultra-Fast Recovery Time for High Efficiency
- Low Forward Voltage Drop, High Current Capability, and Low Power Loss
- Surge Overload Rating to 30A Peak
- Ideally Suited for Automated Assembly
- Plastic Material: UL Flammability Classification Rating 94V-0



- Case: Molded Plastic
- Terminals: Solder Plated Terminal Solderable
 Terminal Sol
 - per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)
- Mounting Position: Any





Office more ()

SMA / DO-214AC

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 current by 20%.

Characteristic		Symbol	US1A	US1B	US1D	US1G	US1J	US1K	US1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	٧
Average Rectified Output Current	Current @ T _T = 75°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}	30						А	
Forward Voltage Drop	@ I _F = 1.0A	V _{FM}	1.0 1.3			1.7		٧		
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 100°C	I _{RM}	5.0 100					μА		
Reverse Recovery Time (Note 2)		t _{rr}		50 75			75		ns	
Typical Junction Capacitance (Note 1)		Cj	20 10					pF		
Typical Thermal Resistance, Junction to Terminal		$R_{\theta JT}$	30							°C/W
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150						°C	

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$.



US1A~US1M

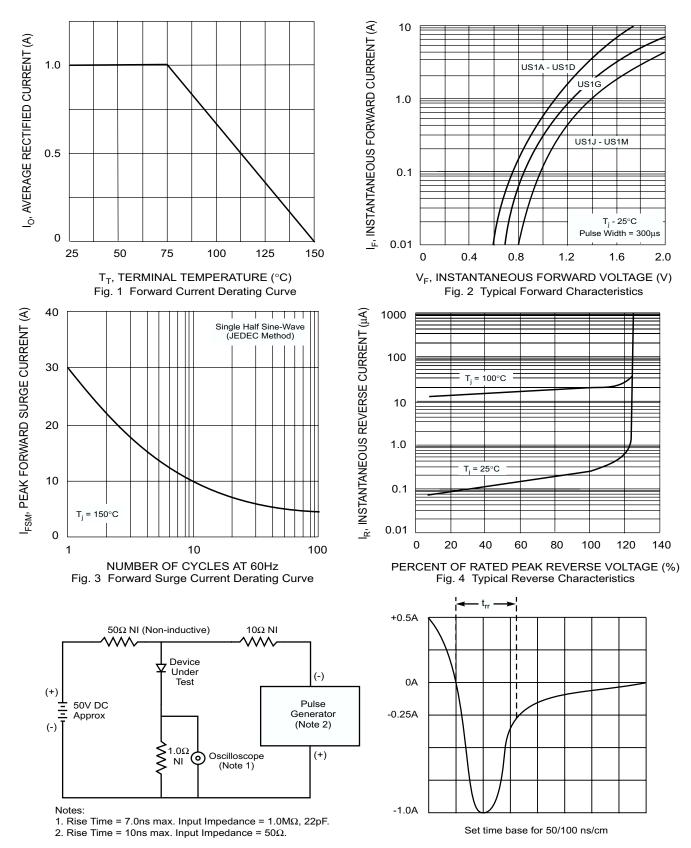


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit