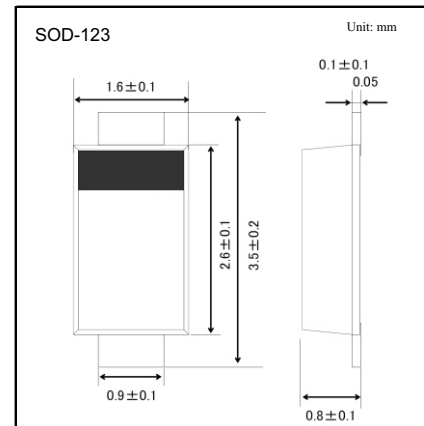


## 1A Rectifier Diodes

## 1A7

## Features

- Low Leakage Current
- Glass Passivated Junction
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Absolute Maximum Ratings  $T_a = 25$ 

Parameter	Symbol	Rating	Unit	
Peak Repetitive Reverse Voltage	$V_{RRM}$	1000	V	
Working Peak Reverse Voltage	$V_{RMWM}$			
DC Blocking Voltage	$V_R$			
RMS Reverse Voltage	$V_{R(RMS)}$	700	V	
Average Rectified Output Current (Note 1) @ $T_A = 75$	$I_o$	1.0	A	
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	25	A	
DC Blocking Voltage	$I_{RM}$	@ $T_A = 25$	5	$\mu A$
		@ $T_A = 100$	50	
Forward Voltage @ $I_F = 1.0A$	$V_{FM}$	1.1	V	
Typical Junction Capacitance (Note 2)	$C_J$	15	pF	
Typical Thermal Resistance Junction to Ambient	$R_{JA}$	75	/W	
Operating and Storage Temperature Range	$T_{j, TSTG}$	-65 to +175		

Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

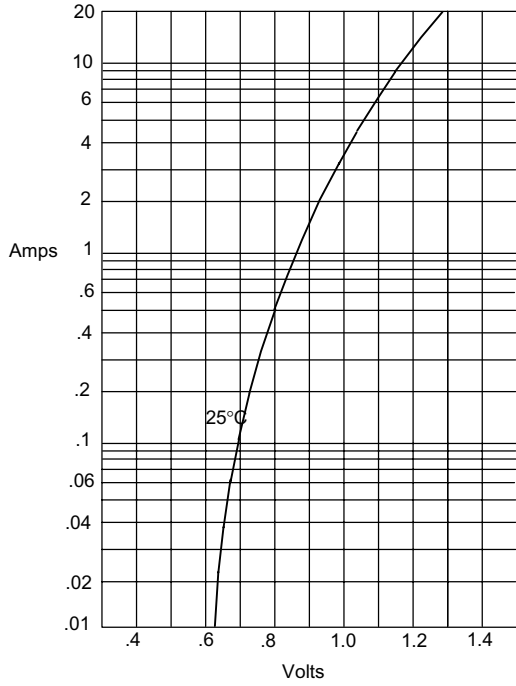
2. Measured at 1. MHz and applied reverse voltage of 4.0V DC.

## ■ Marking

Marking	1A1KV
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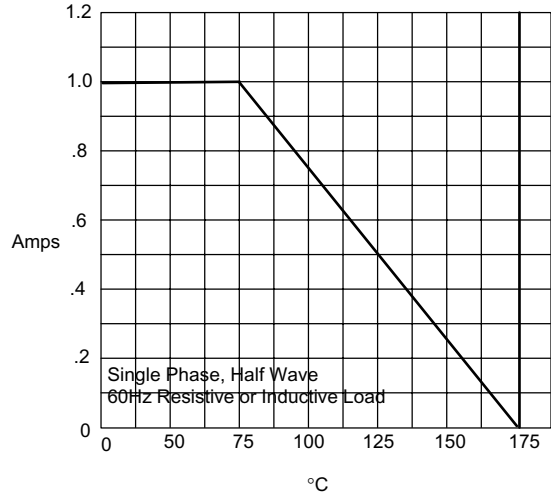
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Figure 1  
Typical Forward Characteristics



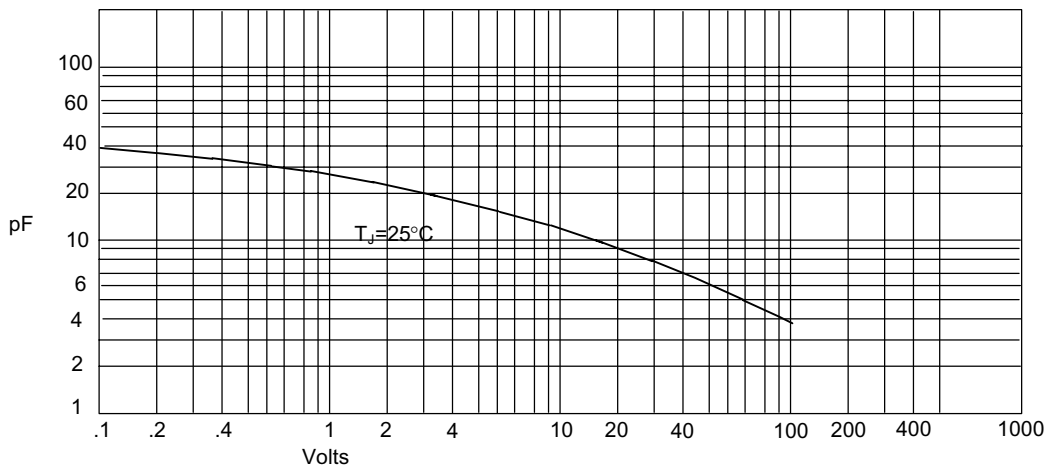
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



Junction Capacitance - pF versus  
Reverse Voltage - Volts