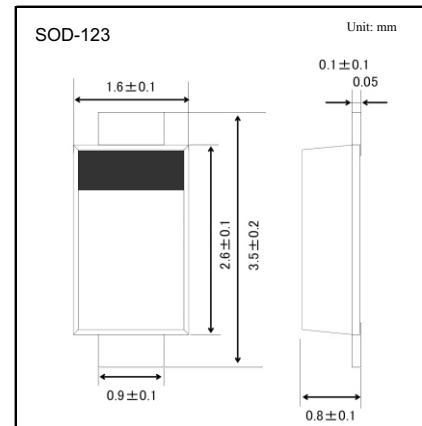


Features

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



Absolute Maximum Ratings Ta = 25

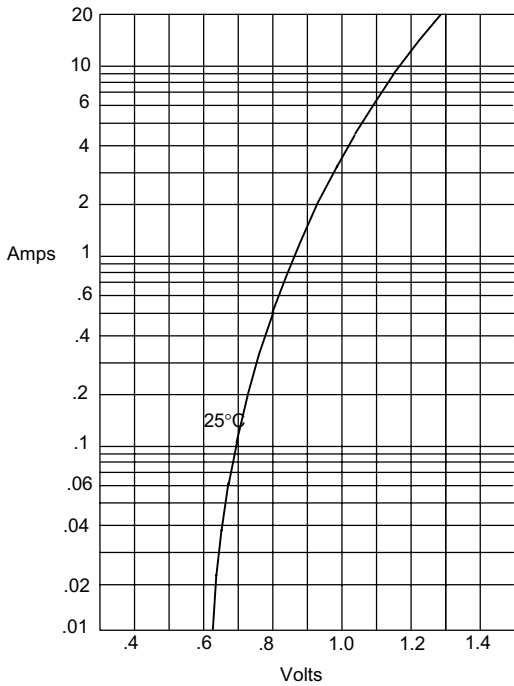
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	1000	V
Working Peak Reverse Voltage	V _{RMWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	700	V
Average Rectified Output Current (Note 1) @ TA = 75	I _o	1.0	A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	25	A
DC Blocking Voltage @ TA = 25 @ TA = 100	I _{RM}	5	μA
		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 , T _{STG}	-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

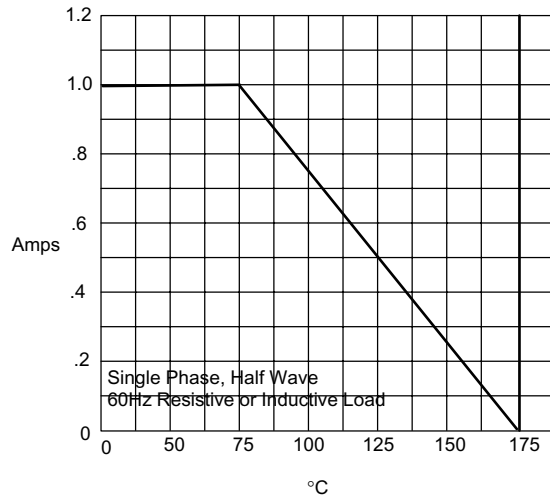
Marking	1A1KV
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Figure 1
Typical Forward Characteristics



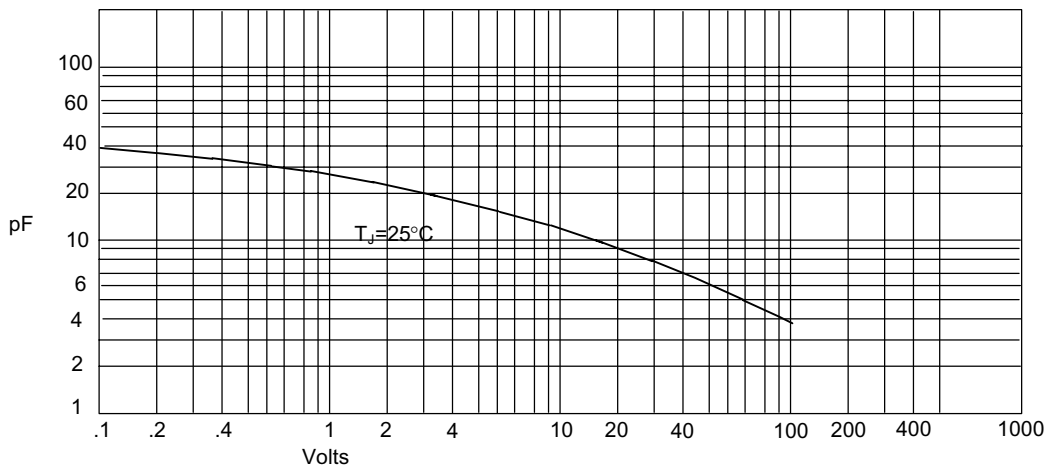
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

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