

BYV26CF-HAF

SUPER FAST RECTIFIERS

Reverse Voltage - 600 V

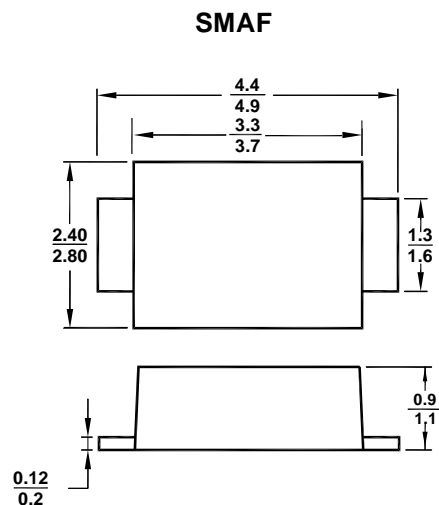
Forward Current - 1 A

Features

- Low cost
- Low forward voltage drop
- High current capability
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

- **Case:** SMAF
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026



All Dimensions in mm

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half-wave, 50 Hz, resistive or inductive load, for capacitive load, derate current by 20%.

Parameter	Symbols	BYV26CF	Units
	Marking	26C	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current at $T_A = 65^\circ\text{C}$	$I_{F(AV)}$	1	A
Peak Forward Surge Current 10 ms Single Half Sine Wave Superimposed on Rated Load at $T_J = 125^\circ\text{C}$	I_{FSM}	30	A
Maximum Forward Voltage at 1 A $T_J = 25^\circ\text{C}$ $T_J = 175^\circ\text{C}$	V_F	2.5 1.3	V
Maximum Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	I_R	5 150	μA
Maximum Reverse Recovery Time ¹⁾	t_{rr}	35	ns
Typical Junction Capacitance ²⁾	C_J	45	pF
Typical Thermal Resistance ³⁾	$R_{\theta JA}$	100	$^\circ\text{C/W}$
Operating Junction temperature range	T_J	- 55 to + 150	$^\circ\text{C}$
Storage temperature range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ Reverse recovery test conditions: $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$.

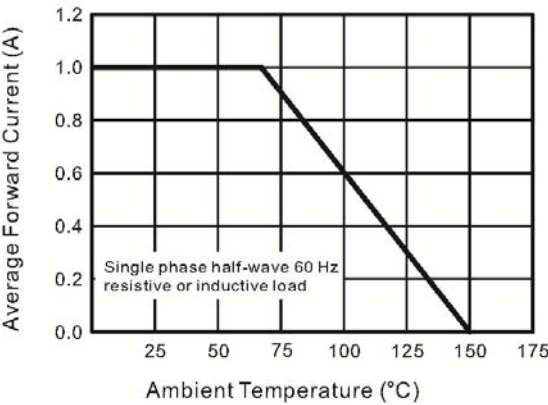
²⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

³⁾ Thermal resistance from junction to ambient.

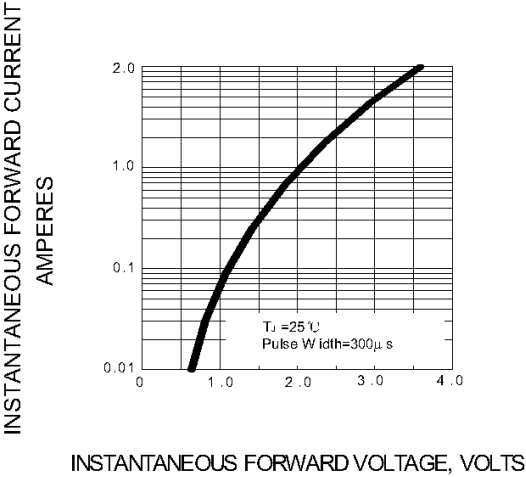
TOP DYNAMIC



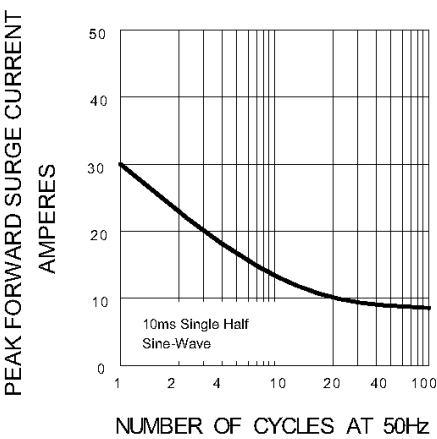
Forward Current Derating Curve



TYPICAL FORWARD CHARACTERISTIC



PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

