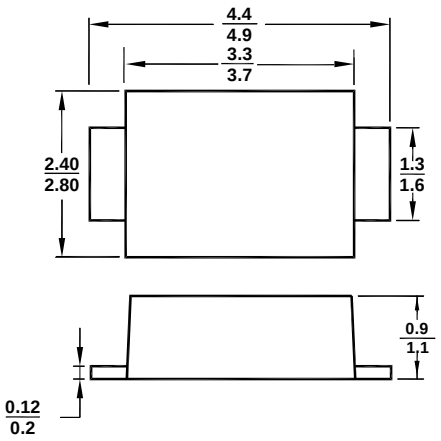
BYV26CF

SUPER FAST RECTIFIERS

Reverse Voltage - 600 V
Forward Current - 1 A

SMAF



All Dimensions in mm

Features

- Low cost
- Low forward voltage drop
- High current capability

Mechanical Data

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

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°C	$I_{F(AV)}$	1	A
Peak Forward Surge Current 10 ms Single Half Sine Wave Superimposed on Rated Load at T_J = 125 °C	I_{FSM}	30	A
Maximum Forward Voltage at 1 A T_J = 25 °C T_J = 175 °C	V_F	2.5 1.3	V
Maximum Reverse Current T_A = 25 °C at Rated DC Blocking Voltage T_A = 100°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	°C/W
Operating Junction temperature range	T_j	- 55 to + 150	°C
Storage temperature range	T_{stg}	- 55 to + 150	°C

[1] Reverse recovery test conditions: I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.
[2] Measured at 1 MHz and applied reverse voltage of 4 V D.C.
[3] Thermal resistance from junction to ambient.

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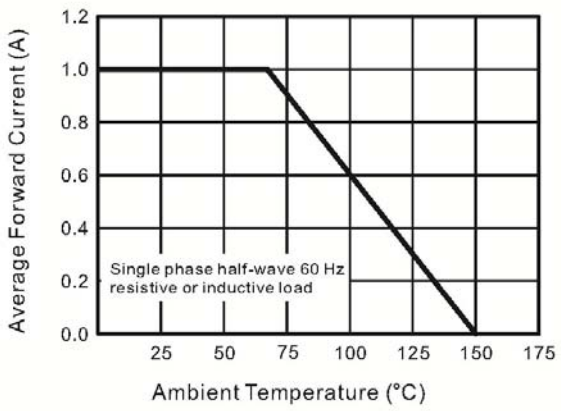
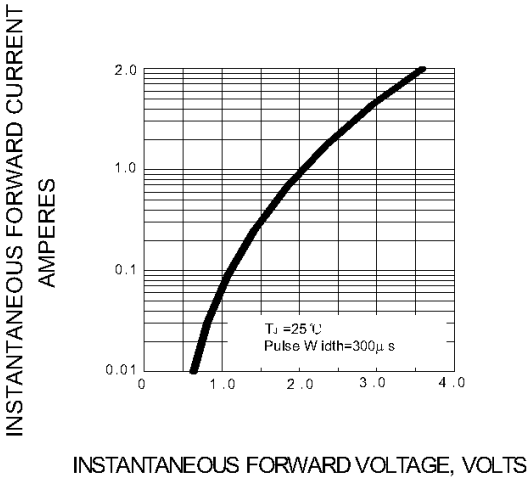
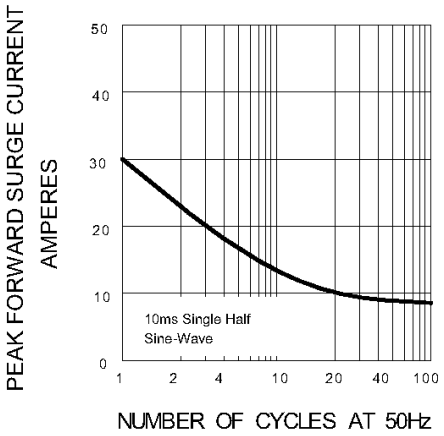
Forward Current Derating Curve



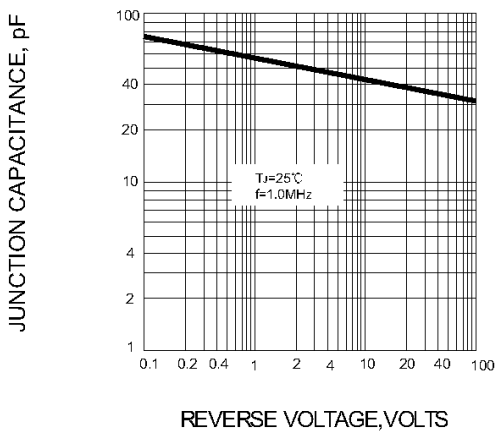
TYPICAL FORWARD CHARACTERISTIC



PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TOP DYNAMIC

ISO14001 : 2004 Certificate No. 121505007
ISO 9001 : 2008 Certificate No. 50114012
OHSAS 18001 : 2007 Certificate No. 0513150600
IECQ QC 080000

Dated : 26/07/2016 JD Rev:02