

BYV26A THRU BYV26E

SUPER FAST RECTIFIERS

Reverse Voltage - 200 to 1000 V

Forward Current - 1 A

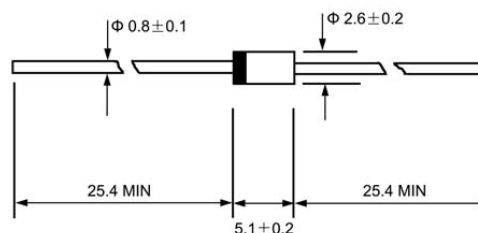
Features

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

Mechanical Data

- Case: Molded plastic, DO-41
- Lead: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO - 41



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

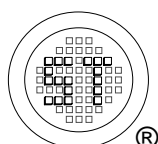
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half-wave, 50 Hz, resistive or inductive load, for capacitive load, derate current by 20%.

Parameter	Symbols	BYV26A	BYV26B	BYV26C	BYV26D	BYV26E	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at T _A = 75 °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	V _F	2.5					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}	30			75		ns
Typical Junction Capacitance ²⁾	C _J	45			40		pF
Typical Thermal Resistance ³⁾	R _{θJA}	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: $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $t_{rr} = 0.25\text{ A}$.

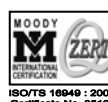
²⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

³⁾ Thermal resistance from junction to ambient.



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FIG.1 – FORWARD DERATING CURVE

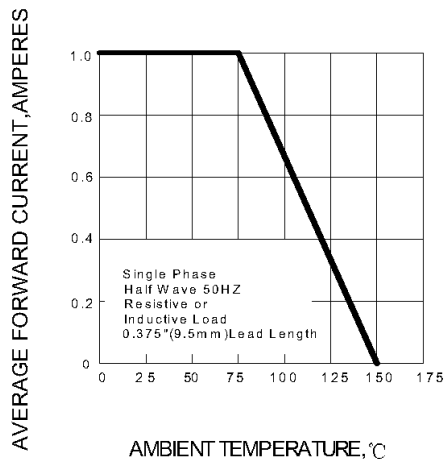


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

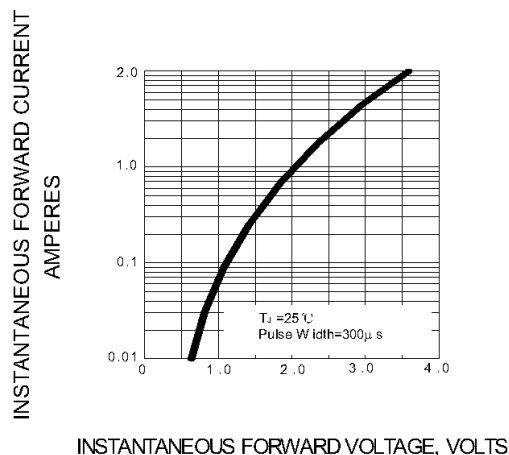


FIG.3 –PEAK FORWARD SURGE CURRENT

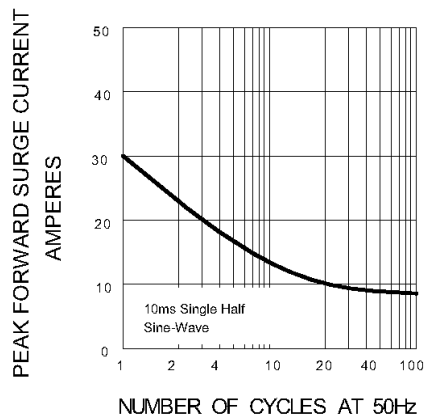
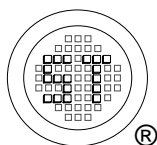
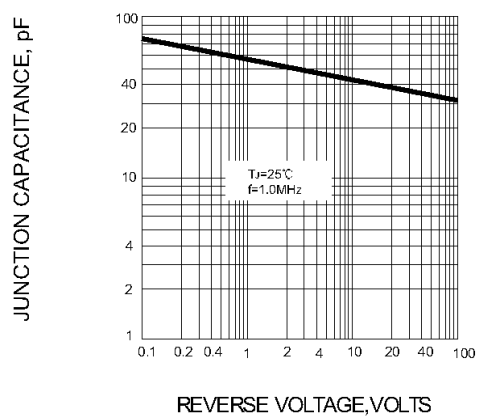
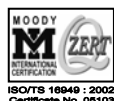


FIG.4 – TYPICAL JUNCTION CAPACITANCE



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