BYV26A THRU BYV26E

SUPER FAST RECTIFIERS

Reverse Voltage - 200 to 1000 V

Forward Current - 1 A

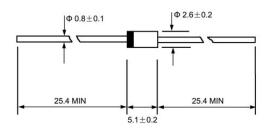
Features

- 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%.

Symbols	BYV26A	BYV26B	BYV26C	BYV26D	BYV26E	Units
V_{RRM}	200	400	600	800	1000	V
V _{RMS}	140	280	420	560	700	V
V_{DC}	200	400	600	800	1000	V
I _{F(AV)}	1					Α
I _{FSM}	30				А	
V _F	2.5				V	
I _R	5 150					μΑ
t _{rr}	30		75		ns	
СЛ	45		4	40		
$R_{\theta JA}$	100				°C/W	
T _j	- 55 to + 150				°C	
T_{stg}	- 55 to + 150				°C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{F(AV)} \\ \\ I_{FSM} \\ V_{F} \\ \\ I_{R} \\ \\ t_{rr} \\ \\ C_{J} \\ \\ R_{\theta JA} \\ \\ T_{j} \\ \end{array}$	V _{RRM} 200 V _{RMS} 140 V _{DC} 200 I _{F(AV)} I _{FSM} V _F I _R t _{rr} C _J R _{θ,JA} T _j	V _{RRM} 200 400 V _{RMS} 140 280 V _{DC} 200 400 I _{F(AV)} I _{FSM} V _F I _R 30 C _J 45 R _{θJA} T _j -	V _{RRM} 200 400 600 V _{RMS} 140 280 420 V _{DC} 200 400 600 I _{F(AV)} 1 1 I _{FSM} 30 2.5 I _R 5 150 t _{rr} 30 45 R _{θJA} 100 T _j -55 to + 15	V _{RRM} 200 400 600 800 V _{RMS} 140 280 420 560 V _{DC} 200 400 600 800 I _{F(AV)} 1 30 V _F 2.5 5 150 I _{rr} 30 7 C _J 45 4 R _{θJA} 100 -55 to + 150	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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



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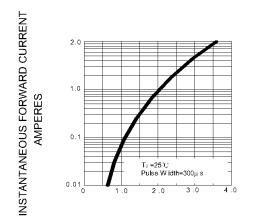
 $^{^{\}rm 2)}$ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

³⁾ Thermal resistance from junction to ambient.

FIG.1 - FORWARD DERATING CURVE

Single Phase Half Wave 50HZ Resistive or Inductive Load 0.375"(9.5m m)Lead Length 0 25 50 75 100 125 150 175

FIG.2 - TYPICAL FORWARD CHARACTERISTIC



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.3 -PEAK FORWARD SURGE CURRENT

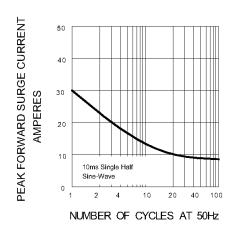
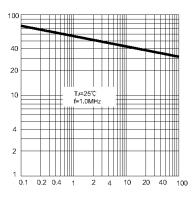


FIG.4 - TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, VOLTS



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JUNCTION CAPACITANCE, pF







