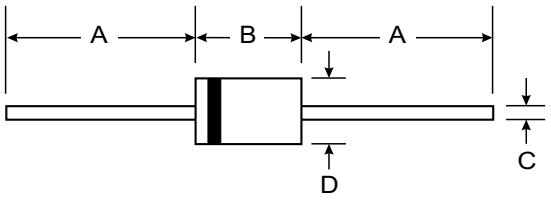
BYV26A-BYV26E

1.0A Axial Leaded Super Fast Rectifier

Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with alcohol,Isopropanol and similar solvents



Mechanical Data

- Case: JEDEC DO-41,molded plastic
- Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounces,0.34 grams
- Mounting position: Any

DO-41		
Dim	**Min**	**Max**
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

		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 9.5 mm lead length, @T_A=75°C	$I_{F(AV)}$	1.0					A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T_J=125°C	I_{FSM}	30.0					A
Maximum instantaneous forward voltage @ 1.0A	V_F	2.5					V
Maximum reverse current @T_A=25°C at rated DC blocking voltage @T_A=100°C	I_R	5.0 150.0					μA
Maximum reverse recovery time (Note1)	t_{rr}	30			75		ns
Typical junction capacitance (Note2)	C_J	45			40		pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	100					°C/W
Operating junction temperature range	T_J	- 55 ----- + 150					°C
Storage temperature range	T_{STG}	- 55 ----- + 150					°C

NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

2. Measured at 1MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

FIG.1 -- FORWARD DERATING CURVE

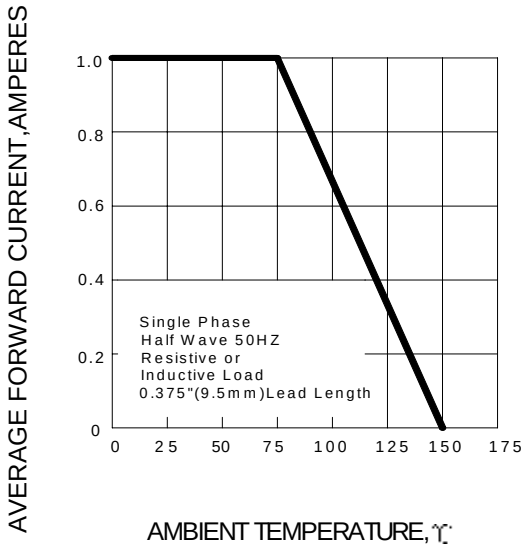


FIG.2 -- TYPICAL FORWARD CHARACTERISTIC

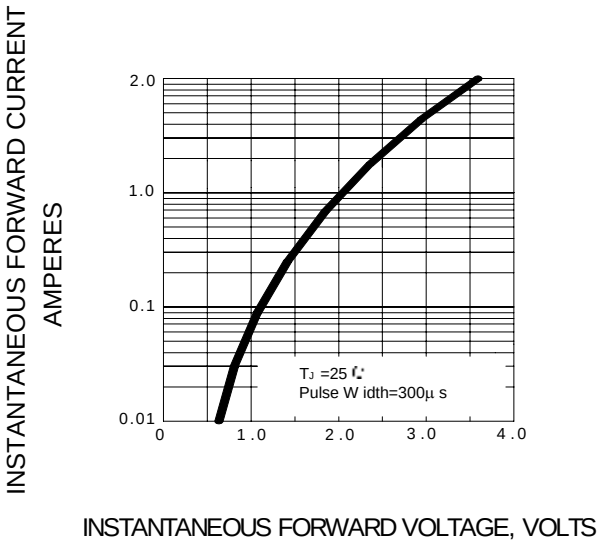


FIG.3 --PEAK FORWARD SURGE CURRENT

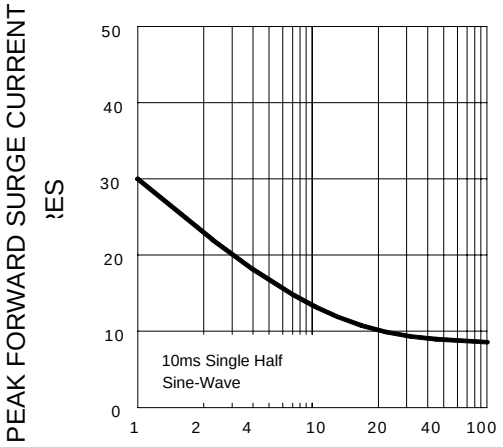


FIG.4 -- TYPICAL JUNCTION CAPACITANCE