

VOLTAGE RANGE: 200 - 1000V

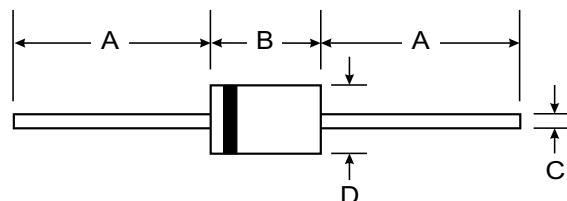
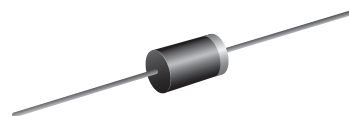
CURRENT: 1.6A

Features

- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents

Mechanical Data

- Case : DO-15, Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
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%.

Characteristic	Symbol	BYV36A	BYV36B	BYV36C	BYV36D	BYV36E	
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	200	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @T _A =75℃	I _{F(AV)}	1.6					A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T _J =125℃	I _{FSM}	30.0					A
Maximum instantaneous forward voltage @ 1.0A	V _F	1.35			1.45		V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	5.0 100.0					μ A
Maximum reverse recovery time (Note1)	t _{rr}	100			150		ns
Typical junction capacitance (Note2)	C _J	18					pF
Typical thermal resistance (Note3)	R _{θJA}	45					℃/W
Operating junction temperature range	T _J	-55 ---- + 150					℃
Storage temperature range	T _{STG}	-55 ---- + 150					℃

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

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

FIG.1 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

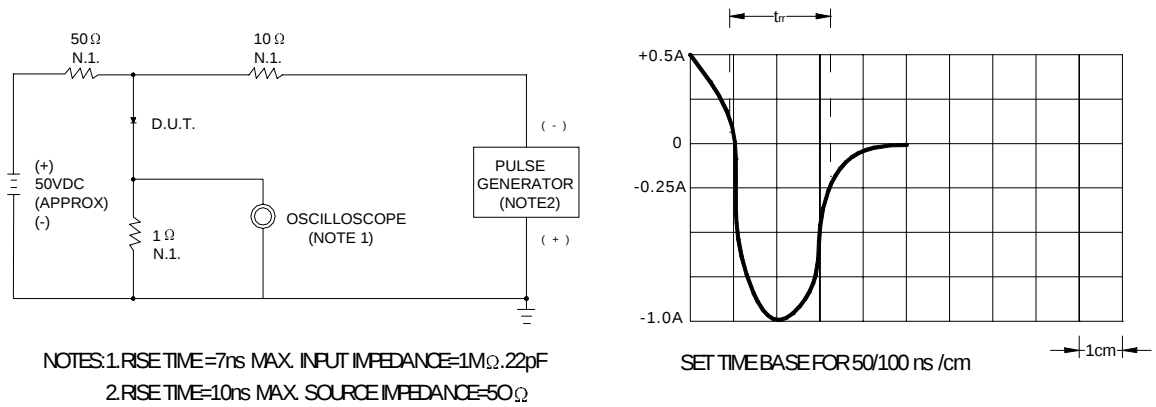


FIG.2 – FORWARD DERATING CURVE

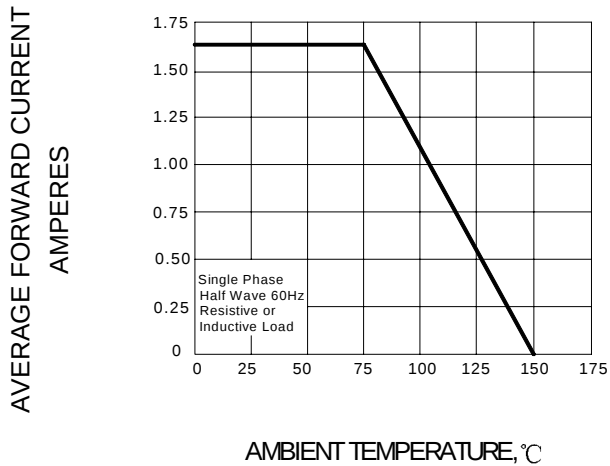


FIG.3 – PEAK FORWARD SURGE CURRENT

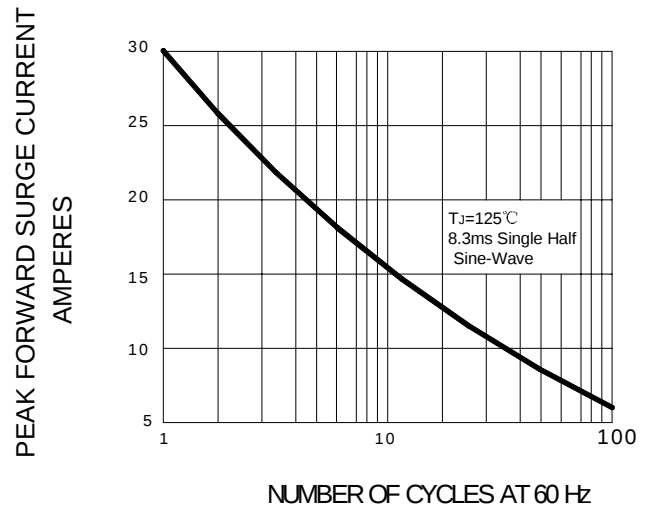


FIG.4-TYPICAL FORWARD CHARACTERISTIC

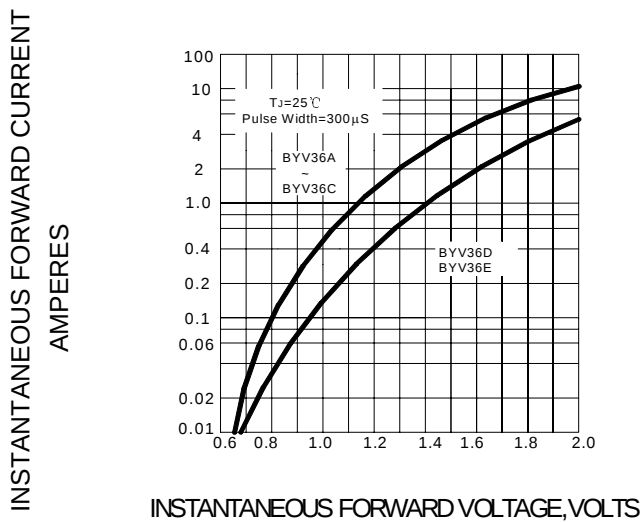


FIG.4-TYPICAL JUNCTION CAPACITANCE

