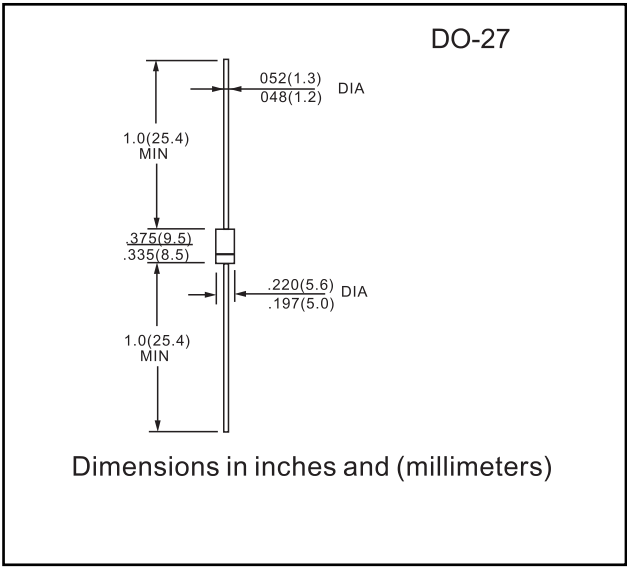


BY396G-BY399G
 100V-800V
 2.0A

FEATURES	
<ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ Fast switching for high efficiency ◆ Low reverse leakage ◆ High forward surge current capability ◆ High temperature soldering guaranteed: ◆ 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension 	
MECHANICAL DATA	
Case: DO-201AD molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.012 ounce, 1.10 grams	



Maximum Ratings And Electrical Characteristics

(Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	BY396G	BY397G	BY398G	BY399G	Units
Maximum recurrent peak reverse voltage	V _{RRM}	100	200	400	800	Volts
Maximum RMS voltage	V _{RMS}	70	140	280	560	Volts
Maximum DC blocking voltage	V _{DC}	100	200	400	800	Volts
Maximum average forward rectified current R load at T _A =50 °C	I _(AV)	3.0				Amps
Peak forward surge current 10ms single half sine-wave superimposed on rated load at T _A =25 °C	I _{FSM}	100.0				Amps
Maximum instantaneous forward voltage at 3.0A	V _F	1.3				Volts
Maximum DC reverse current at rated DC blocking voltage	T _A =25 °C	5.0				μA
	T _A =125 °C	125				
Maximum reverse recovery time (Note 1)	T _{rr}	250				ns
Max.thermal resistance	R _{θJA}	30				°C/W
Typical junction capacitance (Note 2)	C _J	25.0				pF
Operating junction and storage temperature range	T _J T _{STG}	-65 to +175				°C

Notes:

- (1) Test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.
- (2) Measured at 1MHz and applied reverse voltage of 4.0 Volts.

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

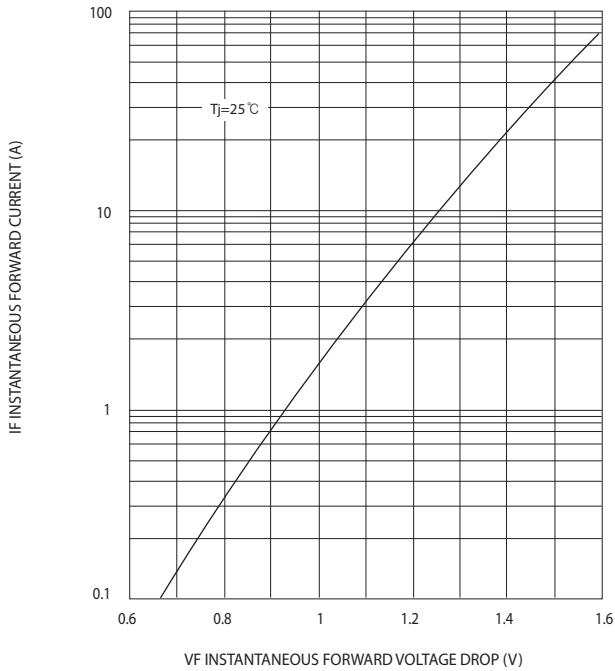


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

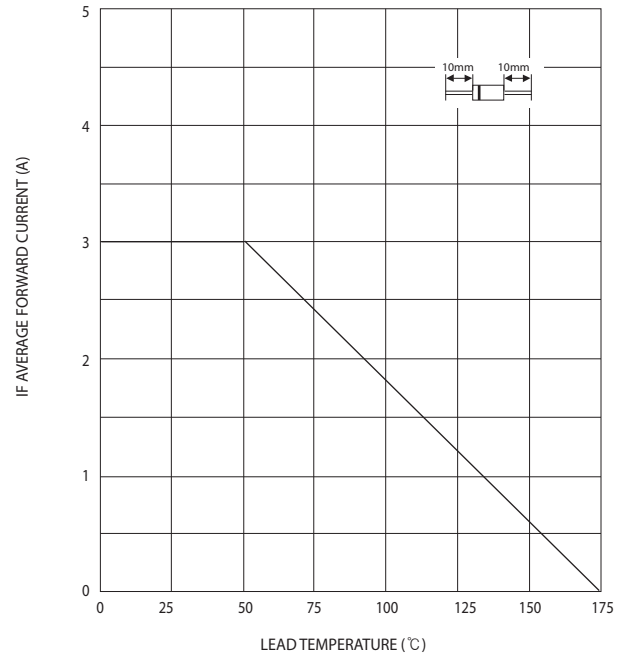


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

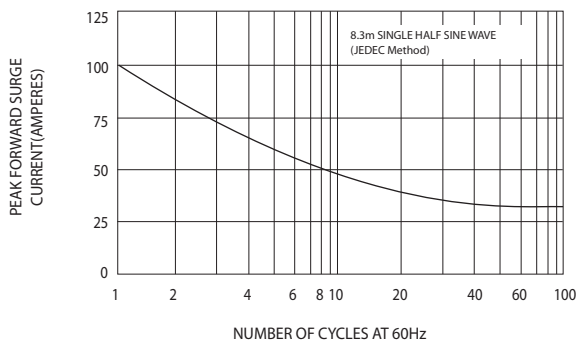


FIG.4-TYPICAL JUNCTION CAPACITANCE

