

BYV26A THRU BYV26E

1.0AMP. VERY FAST RECOVERY RECTIFIERS

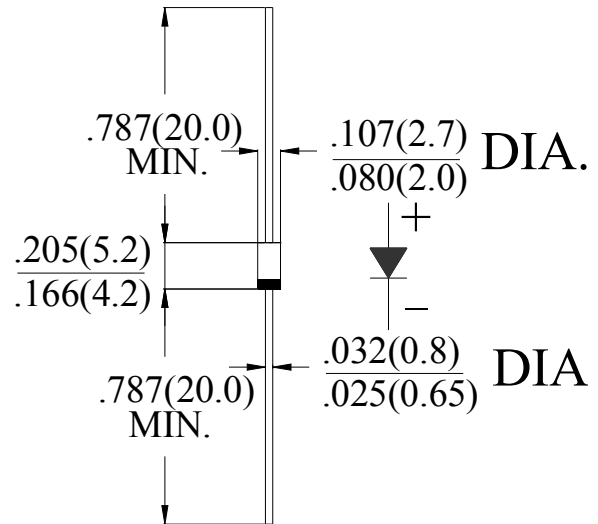
FEATURE

- High reliability
- Low leakage
- Low forward voltage
- High current capability
- Super fast switching speed
- High surge capability
- Good for switching mode circuit

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD- 202E, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.33 grams

DO-41



Dimensions in inches and (millimeters)

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 current by 20%.

Type Number	SYM BOL	BYV 26A	BYV 26B	BYV 26C	BYV 26D	BYV 26E	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 .375"(9.5mm)lead length at $T_L = 75^\circ\text{C}$	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0					A
Maximum Forward Voltage at 1.0A DC	V_F	2.5					V
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	5.0 100.0					μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35			75		nS
Typical Junction Capacitance (Note 2)	C_J	45			40		pF
Storage Temperature	T_{STG}	-55 to +150					$^\circ\text{C}$
Operation Junction Temperature	T_J	-55 to +125					$^\circ\text{C}$

Note:

1. Reverse Recovery test Condition: $I_f = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$;
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATING AND CHARACTERISTIC CURVES (BYV26A THRU BYV26E)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

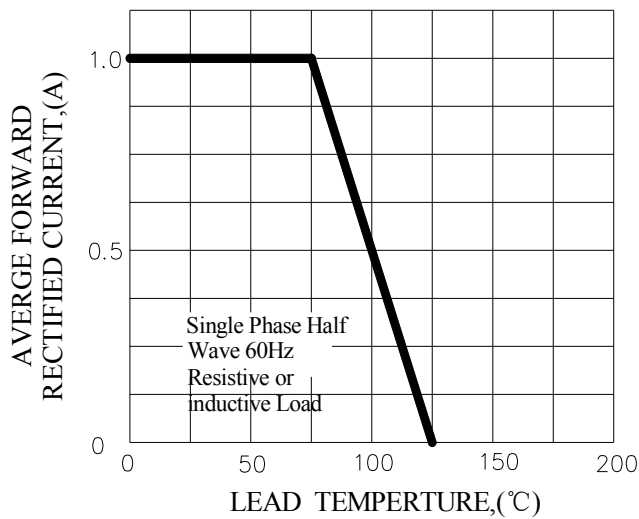


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

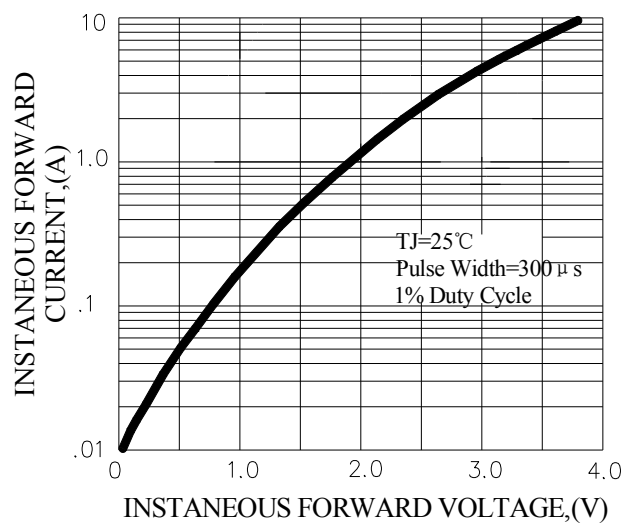


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

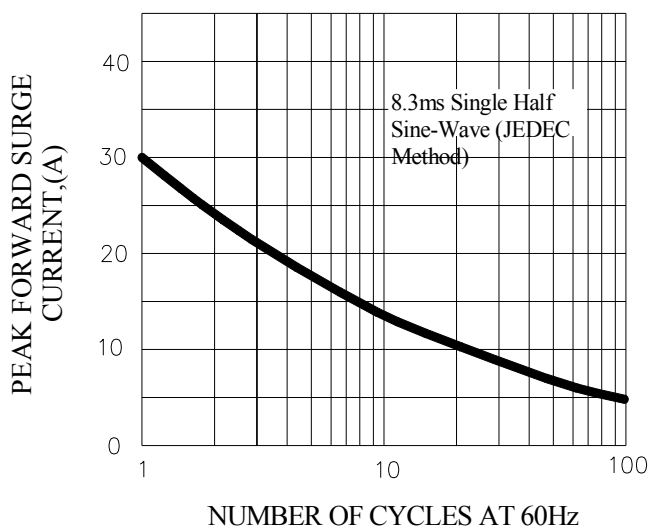


FIG.4-TYPICAL REVERSE CHARACTERISTICS

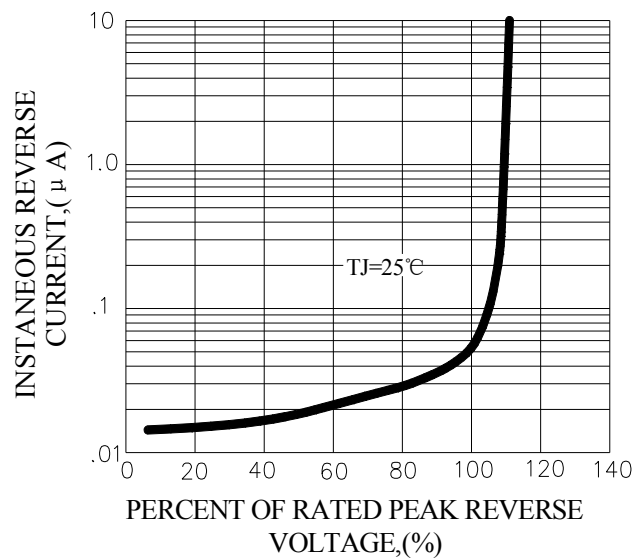
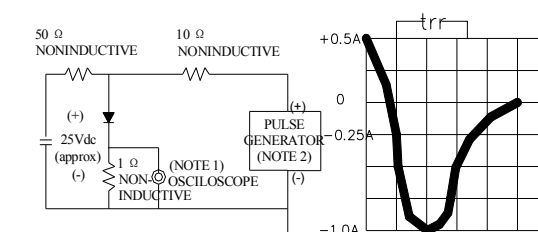


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:1. Rise Time=7ns max, Input Impedance= 1 megohm.22pF.
2. Rise Time=10ns max, Source Impedance= 50 ohms.

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