

BYV26A~BYV26E 1.0Amp Super Fast Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds,0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

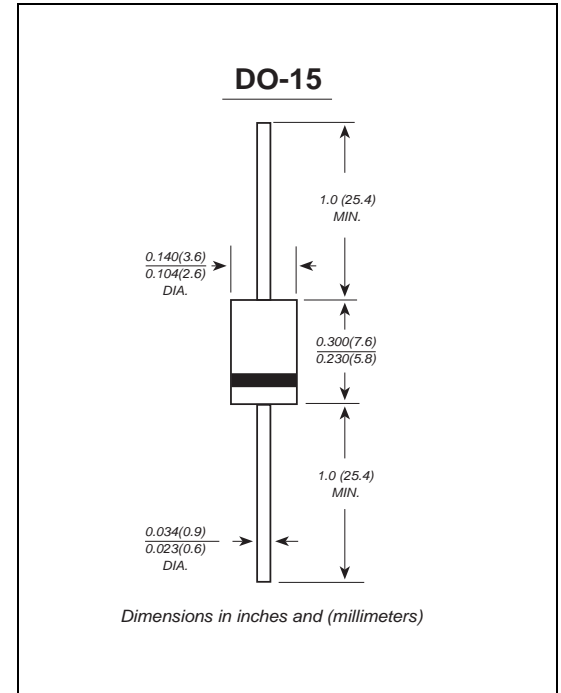
Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight : 0.014 ounce, 0.40 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 current derate by 20%.

	SYMBOLS	BYV26A	BYV26B	BYV26C	BYV26D	BYV26E	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375”(9.5mm) lead length at T _A =75°C	I _(AV)	1.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0					Amps
Maximum instantaneous forward voltage at 1.0A	V _F	2.5					Volts
Maximum DC 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 (NOTE 1)	t _{rr}	40			75		ns
Typical junction capacitance (NOTE 2)	C _J	45			40		pF
Typical thermal resistance (NOTE 3)	R _{θJA}	100					°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					°C

Note:1.Reverse recovery condition $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$

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

3.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

Ratings And Characteristic Curves

BYV26A THRU BYV26E

FIG. 1- FORWARD CURRENT DERATING CURVE

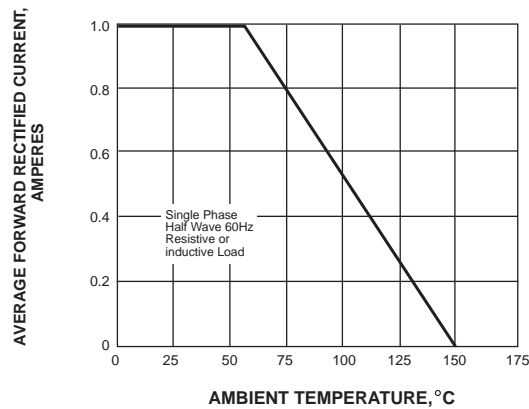


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

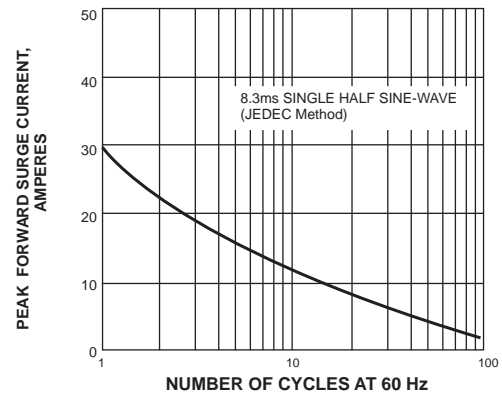


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

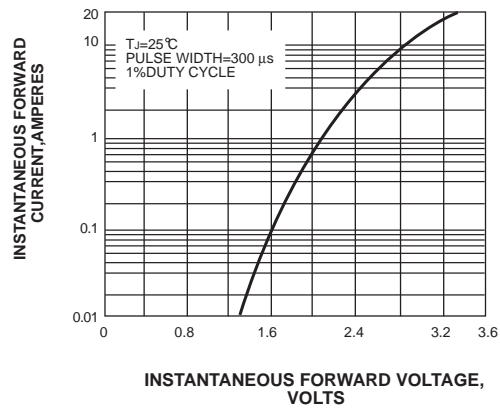


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

