

# BYV26A - BYV26E

## VERY FAST SOFT-RECOVERY AVALANCHE RECTIFIER DIODES

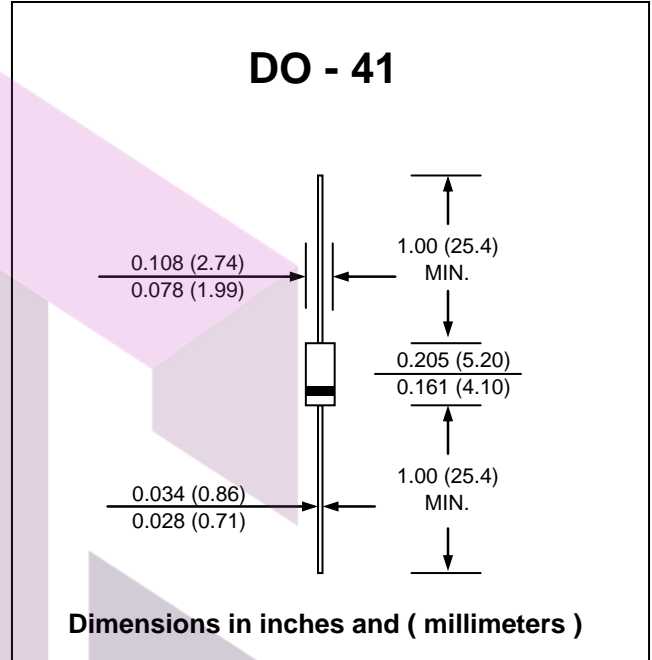
**PRV : 200 - 1000 Volts**  
**Io : 1.0 Ampere**

### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : DO-41 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 : 0.339 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

RATING	SYMBOL	BYV26A	BYV26B	BYV26C	BYV26D	BYV26E	BYV26G	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	200	400	600	800	1000	1400	V
Maximum Continuous Reverse Voltage	VR	200	400	600	800	1000	1400	V
Minimum Reverse Avalanche Breakdown Voltage @ 100µA	V(BR)R	300	500	700	900	1100	1500	V
Maximum Average Forward Current ( Note 1 )	IF(AV)	1.0						A
Maximum Non-Repetitive Peak Forward Current	IFSM	30						A
Maximum Repetitive Peak Forward Current( Ttp = 85 °C )	IFRM	10						A
Maximum Forward Voltage at I.0 Amp. ; TJ = 25 °C TJ = 175 °C	VF	2.5						V
	VF	1.3						V
Maximum Reverse Current Ta= 25 °C at Reverse Voltage Ta= 100 °C	IR	5.0						µA
	IR(H)	150						µA
Maximum Reverse Recovery Time ( Note 2 )	Trr	30			75		150	ns
Typical Thermal Resistance - Junction to Ambient	RθJA	100						K/W
Junction Temperature Range	TJ	- 65 to + 175						°C
Storage Temperature Range	TSTG	- 65 to + 175						°C

### Notes :

- ( 1 ) Ttp = 85 °C , lead length 10 mm.
- ( 2 ) Measured with IF = 0.5 Amp, IR = 1.0A, Irr = 0.25A.

## RATING AND CHARACTERISTIC CURVES ( BYV26A - BYV26G )

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

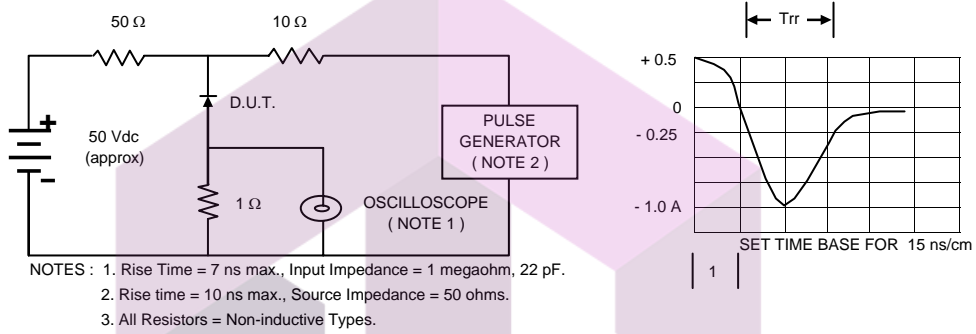


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

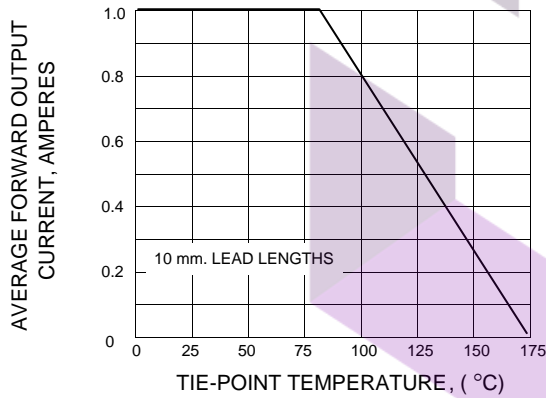


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

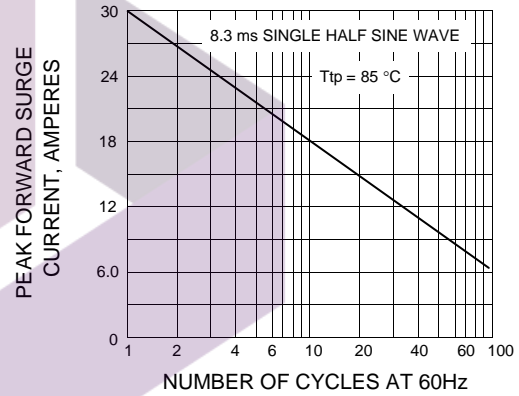


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

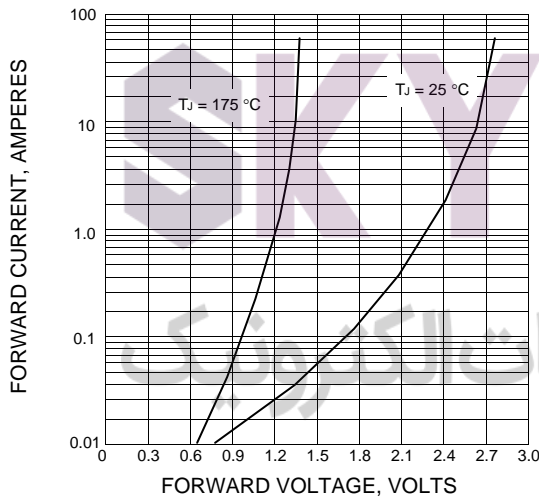


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

